These are questions for Harvard's third team, tentatively named "Goldeneye," consisting of Erica Farmer, Carey Hsu, Maya Kobersy, Alan Wirzbicki and Joon Pahk.

SCIENCE

TOSSUP \#1:
He once proposed that very large numbers be called "economical" rather than "astronomical" because the number of dollars in the federal debt had surpassed the number of light years from the earth to the observable edge of the universe, but he is most famous for doing work in neither economics nor astronomy, but instead in the fundamental interactions of light and matter. For ten points name this American physicist who shared the Nobel Prize in physics with Tomonaga and Schwinger in 1965 for their theory of quantum electrodynamics.

ANSWER: Richard Phillips _FEYNMAN_ (FINE-man)
TOSSUP \#2:
The stopping potential is independent of the intensity, and instead varies linearly with the frequency of the light, with an intercept equal to the work function of the cathode. This puzzling phenomenon was explained in 1905 by the theory that light is grouped into small packets. For ten points, name this effect, the explanation of which won Einstein his only Nobel Prize, in 1921.

ANSWER: _PHOTOELECTRIC_Effect
TOSSUP \#3:
He lived almost his entire life in New Haven, and while he was a faculty member at Yale he once argued that math should fulfill the university's language requirement. He made substantial contributions in vector analysis and statistical mechanics, but his major achievements were in chemistry, where he was among the first to do a mathematical study of chemical equilibria using concepts from thermodynamics. For ten points name this man, whose name is given to the energy available to do useful work in a chemical system.

ANSWER: Josiah Willard _GIBBS_
TOSSUP \#4:
This term refers to a section of the primary transcript and to the corresponding part of the gene that is ultimately either translated or utilized in part of a final product. The section of the transcript survives the processing phases and operates in protein synthesis. For ten points, identify this term which reflects the fact that these gene sections are expressed.

## ANSWER:_EXON_

BONUS \#1 (30 pts):
30-20-10, name the scientist.
30: The general term for particles which do not obey the exclusion principle is named for him.
20: In his famous 1924 paper on the statistics of photons, he derived Planck's law of radiation and proposed that the number of photons is not conserved.
10: He sent his paper to Einstein, who translated it into German, and with Einstein shares the name of the statistics of integer-spin particles.

ANSWER: Satyendra _BOSE_
BONUS \#2 (25 points):
Pencil and paper may be helpful. A particle of mass $m$ moves under the influence of a quartic potential, U equals k times x to the fourth. You will have ten seconds for each part.
A) For ten points, what is the force on the particle, in terms of k and x ?

ANSWER: _-4 $\mathrm{k} \mathrm{x}^{\wedge} 3$ _ (prompt if negative sign is not given)
B) If the particle is released from rest at $x$ equals $L$, find the speed of the particle as it crosses the equilibrium point, in terms of $k$, $L$, and $m$.

ANSWER: _L^2 times the square root of 2 k over $\mathrm{m}_{-}$
BONUS \#3 (20 points):
The kinetic molecular theory of gases assumes that individual gas molecules have no volume, do not interact with one another, and make only elastic collisions with each other and with the container walls.
A) For ten points, what word describes a gas which fits this description?

ANSWER: _IDEAL_
B) For another ten, name the Dutch chemist who in 1873 added correction terms to the ideal gas law for volume-occupation of gas molecules and intermolecular forces.

ANSWER: J.D. _VAN DER WAALS_
BONUS \#4 (30 pts):
Give the term from ornithology from its definition, for ten points each.
A) Birds which hatch already well-developed, found mostly among ground-nesting birds.

ANSWER:_PRECOCIAL_
B) Birds born almost helpless, naked and blind, which depend on their parents for an extended period of time.

ANSWER: _ALTRICIAL_
C) Including most altricial birds, this classification of birds nests in trees.

ANSWER:_PASSERINE_
LITERATUREJPHILOSOPHY

TOSSUP \#5:
He is sometimes called the Shakespeare of his country, but in fact his range was much broader than Shakespeare's; he wrote pieces in almost every extant genre and even invented one of his own, the "novel in verse." He was mortally wounded in a duel in January 1837, but fortunately his prolific writing ability compensated for his all-too-brief career. For ten points name the Russian who penned _Boris Gudinov_ and _Eugene Onegin_.

ANSWER: Alexander _PUSHKIN_
TOSSUP \#6:
"Language is the house of Being," proclaimed this philosopher in his later writings. He held poetry to be the priveleged form of language, and his own writings were almost poetic, as he spurned traditional philosophical discourse and attempted to use words according to their etymologies. For ten points name this leading existentialist whose most important work was his 1927 book, "Being and Time."

ANSWER: Martin _HEIDEGGER_
TOSSUP \#7:
Mr. Brannon owns the local diner, Jake Blount proselytizes about socialism, Dr. Copeland seeks to liberate his race, Mick Kelly searches for music, and all are linked to the deaf-mute, Singer, "like spokes in a wheel." For ten points, name this first Carson McCullers novel, which shares its name with a recent song by country music artist Reba McIntyre. :

ANSWER: The _HEART IS A LONELY HUNTER_
TOSSUP \#8:
He was born in 1889, and his major themes include labyrinths, mirrors, doubles, and infinity. His nonstandard view of time influenced Gabriel Garcia Marquez's theory of circular time. For ten points name this Argentinian author of the short story collections "Ficciones" (Fictions)
and "El Aleph."

ANSWER: Jorge Luis _BORGES_
BONUS \#5 (20 pts):
The stage direction "Exit, pursued by a bear" is one of the most famous in the Shakespearean canon. For ten points each, name the play from which it is taken and the character who exits and is subsequently killed and eaten by the bear.

## ANSWERS: _THE WINTER'S TALE_

_ANTIGONUS_
BONUS \#6 (30 pts):
Name the author from works, 30-20-10.
30: Helen, Ion, Cyclops
20: Hippolytus, Alcestis
10: Trojan Women, Medea
ANSWER: _EURIPIDES_
BONUS \#7 (20 pts):

Name the book from the 1997 New York Times bestseller list from a description for ten points each, or five points if you need the author.
A) From its starting scene at the 1951 playoff game between the Dodgers and Giants, it follows the lives of various characters through the Cold War, mixing J. Edgar Hoover, Lenny Bruce, and Frank Sinatra in the plot along the way.

Author: Dom DeLillo
ANSWER:_UNDERWORLD_
B) The text is the journal of 66-year old Ben Turnbull, an inhabitant of the former United States, which had disintegrated after a war with China.

Author: John Updike
ANSWER: _TOWARD THE END OF TIME_
BONUS \#8 (30 points):
30-20-10, name the poem.
30: It contains the quote, "Full many a flower is born to blush unseen/ And waste its sweetness on the desert air."
20: Thomas Hardy's novel "Far from the Madding Crowd" takes its title from another of its quotes.
10: It is the most famous poem by Thomas Gray.

## ANSWER: _ELEGY WRITTEN IN A COUNTRY CHURCHYARD_

HISTORY
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## TOSSUP \#9:

Unsuccessfully attempting to prevent the partition of Poland, he was accused of conspiring to kill the Polish king Stanislaus. He fled to the American colonies in 1777, where he aided the rebelling colonists. Mortally wounded in the Battle of Savannah, he is known as the father of the American cavalry. For ten points, name this Polish hero who was honored in a poem by Longfellow and who shares his name with that of a doctor played by Diana Muldaur on Star Trek: The Next Generation.

ANSWER: Casimir _PULASKI_
TOSSUP \#10:

The son of John of Gaunt and grandson of Edward the Third, he was banished from England in 1398 by Richard the Second. He returned the next year with an invading party, overthrew Richard, and became the first king of the house of Lancaster. For ten points name this king and two-time Shakespeare title character.

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ANSWER: _HENRY_ the _FOURTH_ (also accept "Henry Bolingbroke";
                        prompt on "Henry" or "Henry of Lancaster")
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TOSSUP \#11:
Hippias (HIP-ee-us), the exiled son of Pisistratus (piz-uh-STRAH-tus), brings thirty thousand of Darius' warriors to a plain in Attica supposedly favorable for their cavalry, but they are defeated by only eleven thousand under the command of Miltiades (milt-ee-AY-deez). This sets the stage for Pheidippides (fie-DIP-uh-deez) and his moment in the spotlight. For ten points, what 490 BC battle took place about 26 miles from Athens?

## ANSWER: _MARATHON_

TOSSUP \#12:

The final death toll was estimated as high as 2,500 lives, and local medical facilities were overwhelmed by about 50,000 other people who were temporarily disabled. The ailments included respiratory problems and eye irritation that resulted from exposure to the toxic gas methyl isocyanate. For ten points, identify this site of a tragic accident of December 1984, when toxic gas escaped from a factory owned by an Indian subsidiary of the Union Carbide Corporation.

Answer: _BHOPAL_
BONUS \#9 (30 pts):

For ten points each, or five if within 3 years, name the year the following European monarchies fell.
A) Portugal

ANSWER: _1910_ (5 pts for 1907-1913)
B) Greece

ANSWER: _1975_ (5 pts for 1972-1978)
C) Romania

ANSWER: _1947_ (5 pts for 1944-1950)
BONUS \#10 (20 pts):
A passing knowledge of Rage Against the Machine lyrics might be helpful here. Given the definition or description of a term or person from Mexican history and the Rage song in which it appears, give the person or term, for ten points each.
A) The system of communal land grants given to native farmers, set up by the recently repealed article 27 of the Mexican Constitution. The Rage song is "Wind Below."

ANSWER:_EJIDOS_
B) The succesor to Montezuma, who was killed in the last defense of Tenochtitlan. The Rage song is "People of the Sun."

ANSWER:_CUAHTEMOC_
BONUS \#11 (20 pts):
Identify the following rebellions for ten points each.
A) During this 1857-1858 rebellion, Indian soldiers revolted against the British after being given rifles that had been greased with beef and pork fat.

ANSWER:_SEPOY_Rebellion
B) In 1900, a secret society known as the Fists of Righteous Harmony attacked Christian missions, killing foreign missionaries and Chinese converts.

ANSWER: _BOXER_Rebellion
BONUS \#12 (30 pts):
Answer the following questions about monikers and nicknames from American history for ten points each.
A) First, for which act of Congress was the derogatory anagrammical
nickname "ograbme" used?

ANSWER: _EMBARGO_Act
B) The Embargo Act occurred during the presidency of Thomas Jefferson. Name the Secretary of the Treasury during Jefferson's administration, a man nicknamed the "Watchdog of the Treasury."

ANSWER: Albert _GALLATIN_
C) During the election of 1800, Jefferson, Aaron Burr, John Adams, and Charles C. Pinckney all received at least 64 electoral votes. However, one single electoral vote was cast for this man, a man called a "damn'd archtraitor" for one of his earlier foreign negotiations. Name him.

ANSWER: John _JAY_

## CURRENT EVENTS

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TOSSUP \#13:

For the second time in 35 years, a famous Danish statue has been decapitated. For ten points, name the statue located in Copenhagen harbor which is the subject of both a Hans Christian Anderson fairy tale and a Disney film.

ANSWER: The _LITTLE MERMAID_
TOSSUP \#14:

He ran for president in 1971, and was defeated in an election many believe was fraudulent. He was subsequently exiled, and while he was away four attempts were made on his life by intelligence agents under control of the ruling party. For ten points name the man who, on December 18, became the first ever opposition party candidate to win the presidential election in South Korea.

ANSWER: _KIM DAE-JUNG_(prompt on "Kim"; do not accept "Dae-Jung")

BONUS \#13 (20 pts):
Recently, the mayor of a Miami has threatened to remove city advertizing from a local paper unless the treatment of him becomes nicer. For ten points each, name the mayor and the newspaper.

ANSWER: Xavier _SUAREZ_
The Miami _HERALD_
BONUS \#14 (30 pts):
The cloning of Dolly the sheep in Scotland has caused a lot of controversy in the scientific and world community. Answer the following questions about new genetic advances for ten points each.
A) Dolly and the transgenic lamb Polly were created at PPL laboratories in Scotland by what scientist?

ANSWER: lan _WILMUT_
B) Polly and two of her sisters will produce alpha-1-antitrypsin in their milk, a product which is currently being tested as a treatment for what lung-related genetic disorder?

ANSWER: _CYSTIC FIBROSIS_
C) What independent American scientist seeks to clone humans within approximately two years, despite great pressure to the contrary?

ANSWER: Richard _SEED_
POP CULTURE/SPORTS

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TOSSUP \#15:

Two answers required! The following description fits two people; you must name both of them.
He played high school ball in Virginia and although not much was heard from him during his senior year, he exploded onto the college hoops scene as a freshman, winning Rookie of the Year in his conference hands-down. He left college after two years and was selected first overall in a recent NBA draft. For ten points name these Maryland and Georgetown stars who can now be found on the Warriors and 76ers.

ANSWERS: Joe _SMITH_ and Allen _IVERSON_ (order doesn't matter)
TOSSUP \#16:

Jeep, Ford, McDonald's, Federal Express, Toyota, Southwestern Bell, Builder's Square, Tostitos, Insight.com, Nokia, and Carquest are all sponsors of, for ten points, what new year's sporting events?

ANSWER: _BOWL GAMES_ (prompt on "college football")
TOSSUP \#17:

Although it is believed by some that the name is a code for the KKK, they themselves claim that the name comes from the police code for indecent exposure in Omaha, Nebraska. Regardless of what the name means, though, the 5 -member band fronted by Nick Hexum and S.A. Martinez scored big with their self-titled fourth release. For ten points name this rap/hip-hop band best known for their hit songs "Down," "All Mixed Up," and "Transistor."

ANSWER: _311_ (three-eleven)
BONUS \#15 (30 pts):

Identify the Beatles album from song lyrics, 30-20-10.
30: His sister Pam
Works in the shop
She never stops
She's a go-getter
20: Maxwell Edison, majoring in medicine, calls her on the phone
"Can I take you out to the pictures, Jo-o-o-oan?"
10: He say, "One and one and one is three"
Got to be good-lookin' 'cause he's so hard to see

ANSWER: _ABBEY ROAD_
(30: Mean Mr. Mustard; 20: Maxwell's Silver Hammer; 10: Come Together)
BONUS \#16 (30 pts):

It's fairly safe to say that the Red Sox don't have the best transaction record. Name the culprits who allowed the following travesties for the stated number of points.
A) For five points, this general manager allowed Roger Clemens to sign with the Toronto Blue Jays after the 1996 season.

ANSWER: Dan _DUQUETTE_
B) For ten points, this GM traded Curt Schilling and Brady Anderson to the Orioles in 1988, and Jeff Bagwell to the Astros in 1990.

ANSWER: Lou _GORMAN_
C) For fifteen points, this owner sold Babe Ruth to the Yankees for $\$ 100,000$ in 1920.

ANSWER: Harry _FRAZEE_

BONUS \#17 (30 pts):
Name the scientist, 30-20-10.

30: Some of his inventions are the 77X42, a lemonball so sour that it can only be contained in a magnetic field; a house that runs down the street to escape burglars; and virtual chili.
20: He also developed a robotic teddy bear, and analyzed the Flaming Moe to try to discover its secret ingredient.
10: He is most famous for trying to explain the mysterious third dimension in the 3-D Halloween episode of _The Simpsons_.

ANSWER: Prof. John _FRINK_

## GEOGRAPHY

It is bordered by the Gulf of Carpentaria and the Coral Sea. Located in the northeast portion of the island, its major cities include Rockhampton, Cooktown and Brisbane. For ten points name this Australian state which is also the home of the Great Barrier Reef.

ANSWER: _QUEENSLAND_

TOSSUP \#19:
Located on the Genil (hey-neil) River, this city was occupied until it was recaptured in 1492. For ten points name this site of the Alhambra and last Moorish stronghold in Spain.

ANSWER:_GRENADA_

BONUS \#18 (30 points):

Name the states from descriptions for ten points each.
A) The largest state east of the Mississippi River.

ANSWER: _GEORGIA_
B) The only state without commercial airline service.

ANSWER: _DELAWARE_
C) The only state whose name shares no common letters with the name of its capital.

ANSWER: _SOUTH DAKOTA_
BONUS \#19 (30 points):
Not counting Australia, the largest island in the world is Greenland. For five points each, name the next six largest in any order.

ANSWERS: _NEW GUINEA_
_BORNEO_
_MADAGASCAR_
_BAFFIN_
_SUMATRA_
_HONSHU_
FINE ARTS

TOSSUP \#20:

Kangaroos, Hens and Cocks, The Lion, Fossils, Wild Jackasses, Pianists, The Elephant, and The Swan are all featured in this musical work, described as a "great zoological fantasy for two pianos and chamber ensemble." For ten points name this 1886 work by Camille Saint-Saens.

ANSWER: The _CARNIVAL OF THE ANIMALS_
TOSSUP \#21:
Port of Cadaques, Archeological Reminiscence of Millet's Angelus, Profanation of the Host, The Discovery of America by Christopher Columbus, The Bather, Daddy longlegs of the evening, The Hallucinogenic Toreador, and the Disintegration of the Persistence of Memory are, for ten points, all works of what surrealist painter?

ANSWER: Salvador _DALI_
TOSSUP \#22:
An important collection of his paintings, illustrations, and statuettes exists in Ogden, NY. Although he served as a war correspondent during the Spanish-American War, this sculptor is best known for his portrayal of cowboys, indians, and life in the American West. For ten points name this American artist.

ANSWER: Frederic _REMINGTON_
TOSSUP \#23:
In 1948, he won a Pulitzer Prize for his cartoon entitled, "Peace Today." Just before his death in 1970, he was the first cartoonist honored with a retrospective at the Smithsonian. The only person ever awarded the Golden T-Square by the National Cartoonists Society, the group's annual award is named for, and was designed by, for ten points, which 20th century American cartoonist and sculptor who is most famous for his humorous diagrams of incredibly intricate machines designed to carry out simple tasks?

ANSWER: Rube _GOLDBERG_
BONUS \#20 (20 pts):
As court painter to Phillip IV of Spain, Diego Velasquez painted his famous "Las Meninas" (aka "The Royal Family"). Answer the following questions about the painting for ten points each.
A) Name the young princess who is its main subject.

ANSWER: Infanta _MARGARITA_
B) What Spanish artist, better known for his "colorful" artsistic periods, painted a series of 58 pictures based upon "Las Meninas"?

ANSWER: Pablo_PICASSO_
BONUS \#21 (30 pts):
British composer Benjamin Britten has written several works with connection to well known works of literature. Name the Britten works from a description for ten points, or five if you need the author of the literary
source.
A)

10: An opera based upon the rise and fall of a handsome midshipman who commits a murder.
5: Herman Melville

ANSWER: _BILLY BUDD_
B)

10: an opera about children haunted by their former caretakers.
5: Henry James
ANSWER: The _TURN OF THE SCREW_
C)

10: Britten wrote this piece for the reconsecration of St. Michael's
Cathedral in 1962.
5: Wilfred Owen

ANSWER: _WAR REQUIEM_

BONUS \#22 (30 pts):

Given works of architecture, name the architect responsible for ten points each.
A) The Baroque architect who created the great piazza in front of St. Peter's, the fountains of Piazza Navona, and the churches of Santa Maria della Vittoria.

ANSWER: Giovanni Lorenzo (Gianlorenzo) _BERNINI_
B) Farnsworth House, Illinois; Chicago's Lake Shore Drive Apartments, and the Seagram Building in New York

ANSWER: Ludwig _MIES VAN DER ROHE_
C) University Hall at Harvard; the U.S. Capitol Building

ANSWER: Charles _BULFINCH_

BONUS \#23 (30 pts):
Identify the following architectural terms from their definitions.
A) First, for five points, a tall, tapering, pointed roof on a tower, as in the top of a steeple.

ANSWER: _SPIRE_
B) For ten points, stones hewn, squared, and smoothed for use in building, as distinguished from rough building stones.

ANSWER: _ASHLAR_
C) For fifteen poinst, the transverse entrance hall of a church.

ANSWER: _NARTHEX_
SOCIAL SCIENCES

TOSSUP \#24:

This term can mean either the depreciation of the "book value" of an asset over a period of time, or the gradual paying off of a debt in regular installments over a given time period. For ten points, identify this economic term, used by Barbra Streisand to justify the exorbitant ticket prices for her recent concert tour, her first in 25 years.

ANSWER: _AMORTIZATION_
TOSSUP \#25:

Born in Neuchatel on August 9, 1896, he established the International Centre of Genetic Epistemology at Geneva and became its director. He once explored the reasoning process in young children by developing reading tests for schoolchildren and examining the mistakes that they made. For ten points, name this Swiss psychologist, believed by many to be the twentieth century's premier figure in the field of developmental psychology.

ANSWER: Jean _PIAGET_
BONUS \#24 (30 pts):
Identify the following Supreme Court cases. You will receive five points for correctly naming each party involved in the case.
A) Known as the "sick chicken" case, this Supreme Court decision invalidated the minimum wages and maximum hours provisions of the National Industrial Recovery Act of 1933.

ANSWER: A.L.A. _SCHECHTER_Poultry Corporation v. _U_nited _S_tates
B) This Supreme Court decision, argued by later-Justice Louis Brandeis, upheld maximum hours provisions for female factory workers, stating that it was obvious that "woman's physical structure" placed her "at a disadvantage in the struggle for subsistence."

ANSWER: _MULLER_v._OREGON_
C) In this decision, the Court held that the plaintiffs were not bound by a prior court decision upholding a racially restrictive covenant. The daughter of the plaintiffs later dramatized the incident in "A Raisin in the Sun."

ANSWER: _HANSBERRY_v. _LEE_

BONUS \#25 (30 pts):

Answer the following questions about a nineteenth-century philosopher and psychologist who wrote the monumental textbook entitled _The Principles of Psychology_ in 1890.
A) First, for five points, name him.

ANSWER: _WILLIAM JAMES_ (prompt on just "James")
B) Next, for ten points, name the series of essays published in 1897, in which James explored the philosophy of religion.

ANSWER: _THE WILL TO BELIEVE_ and Other Essays in Popular Philosophy
C) Finally, while in medical school, William James was, deeply influenced by the works of this man on the idea of "free will." On this topic, James said, "my first act of free will shall be to believe in free will." For fifteen points, name this Frenchman, a Kantian Idealist and relativist, who rejected all necessary connection between universal laws and morality.

ANSWER: Charles-Bernard _RENOUVIER_

## RELIGIONMYTHOLOGY

TOSSUP \#26:
"Jesus wept" is the shortest paragraph of _Crime and Punishment_, and also the shortest verse of the Bible. It appears in John eleven, during story of this man from Bethany, who is sometimes referred to as "the one Jesus loved," but who does not even appear in the three synoptic gospels. For ten points name this sister of Martha and Mary whom Jesus raised from the dead.

ANSWER: _LAZARUS_ (prompt on "John 11:35" on early buzz) [Note to pack editor: the reference to _Crime and Punishment_ is not entirely gratuitous; the story of Lazarus is of significant importance in the novel and I thought it would be a reasonable lead-in clue.]

## TOSSUP \#27:

Numbering six at any one time, these women faced severe punishment for any transgressions of their vows of chastity. If they lost their virginity during their time of service, for example, they were burned alive. Even after their service was over, marriage was considered bad luck. For ten points, name this group of Roman women, mentioned in Prokol Harum's song, "Whiter Shade of Pale," who tended the sacred flame of the goddess of the hearth.

ANSWER: _VESTAL VIRGINS_
TOSSUP \#28:

The name literally means "the way of kami," where the word "kami" has been translated as "mystical," "superior," or "divine." Those who practice this religion recognize as their chief "kami" the sun goddess Amaterasu (ah-MAH-ter-AH-soo). For ten points, name this religion which encompasses the indigenous religious beliefs and practices of Japan.

ANSWER: _SHINTO_

BONUS \#26 (30 pts):
Name the figure from Greek mythology, 30-20-10.

30: He founded the city of Corinth and married Merope, one of the Pleiades.
20: The son of Aeolus, he was supposedly the slyest man who ever lived. He is also the subject of an essay by Albert Camus.
10: When he revealed Zeus' abduction of Aegina to her father Aesopus, Zeus was quite upset and subsequently condemned him to roll a rock up a hill for eternity.

ANSWER: _SISYPHUS_

BONUS \#27 (30 points):
Identify the following from Norse mythology for ten points each.
A) The rainbow bridge connecting Midgard and Asgard.

ANSWER:_BIFROST_
B) The name of the great ash tree that supports the universe.

ANSWER: _YGGDRASIL_
C) The name of Odin's eight-legged horse.

ANSWER: _SLEIPNIR_
BONUS \#28 (30 pts):
Identify the following religious terms for "leader" for fifteen points each.
A) This Islamic term literally means "divinely guided one" and describes a figure believed to be a deliverer who will usher in a golden age shortly before the end of the world.

ANSWER:_MAHDI_
B) This term from Hinduism, Jainism, and Buddhism literally means "great man" and describes an individual of extraordinary destiny, distinguished by certain physical traits or marks called laksanas.

ANSWER: _MAHAPURUSA_ (accept also _SHALAKAPURUSA_)

## MISCELLANEOUS

## TOSSUP \#29:

The name's the same: the "exact model for the kind of person who comes to California to die," and the man responsible for the accidental deaths of Bill Clinton, Bob Dole, and Hans Moleman. A Hollywood misfit in Nathaniel West's _The Day of the Locust_ shares, for ten points, what name with the man who has held temporary jobs as a snow-plow driver, baseball mascot, and monorail operator when not working at the Springfield Nuclear Power Plant?

## ANSWER: _HOMER SIMPSON_

(Simpsons references: Clinton and Dole, episode 4F02, "Treehouse of Horror VII"; Moleman, episode 9F09, "Homer's Triple Bypass"; plow, episode 9F07, "Mr. Plow"; mascot, episode 7F05, "Dancin' Homer"; monorail, episode 9F10, "Marge vs. the Monorail")

TOSSUP \#30:
Margaret Thatcher is that great charmer. Clint Eastwood is old West action. Ronald Reagan is a darn long era, and of course, Alec Guinness is genuine class. For ten points, what operation changes "mother-in-law" to "woman Hitler" by rearranging the letters in the words?

ANSWER: _ANAGRAM_ (or "anagramming")
BONUS \#29 (30 pts):
Conjoin these terms from math and sports for ten points each; five points if you only get one of the two terms.
(For example, if the question was to conjoin the penalty called when the quarterback throws the ball after passing the line of scrimmage, with the term referring to the area of a generalized cylinder minus the total area of its bases, you would say "forward lateral area.")
A) The property of a set of vectors that no non-trivial sum of scalar multiples of them is zero, with the college football game memorably named for the Poulan Weed-Eater.

ANSWER: _LINEAR INDEPENDENCE BOWL_ (linear independence, independence bowl)
B) A three-dimensional geometrical figure whose faces are identical regular polygons, with a well-executed part of a pick-and-roll play.

ANSWER: _PLATONIC SOLID SCREEN_ (Platonic solid, solid screen)
(Note: to the question writer's knowledge, there is no way to conjoin "regular polyhedron," which is synonymous with "Platonic solid," with any basketball term.)
C) The team Wayne Gretzky played for before the L.A Kings, with the limit as $n$ increases without bound of the error induced when approximating the $n$th partial sum of the harmonic series by the natural log of $n$.

ANSWER: _EDMONTON OILERS GAMMA_ (Edmonton Oilers, Euler's gamma; also accept "Euler's constant" for "Euler's gamma")

BONUS \#30 (25 pts):
Pencil and paper ready!
How well do you remember your teenage mutant ninja turtles? l'll name four famous works of Renaissance art; you tell me the WEAPON used by each artists' namesake turtles for five points each, plus a five-point bonus for all correct. Ready? "The Last Supper"; "The School of Athens"; the Pieta at St. Peter's church in Rome; the bronze equestrian statue of Gattamelata.

ANSWERS: _KITANA_ blades (prompt on "swords" or "blades") [Leonardo] _SAI_ blades [Raphael]
_NUNCHAKA_ (accept also "nunchucks") [Michelangelo] _BO_ staff (prompt on "staff") [Donatello]
order must be correct!

