

# Technophobia IX Round 1

Berkeley A  
Paul and Juliana

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## 1 Berkeley A Tossups, Round 1

1. He became king of Poland in 1573, probably because he was the favorite son of Catherine de Medici. He issued the Edict of Beaulieu granting minor concessions to Protestants, resulting in the opposition of the Catholic League under the Duc de Guise. His problems with the Wars of Religion got the better of him; Jacques Clement, a Jacobin, stabbed this heirless monarch in 1589, leaving the throne to Henri of Navarre. For ten points, name this last Valois King of France.

**Answer:** Henri III Valois, duc d'Anjou

2. Its first derivative can be found by combining the Einstein equations with the Robertson-Walker metric, producing the Friedmann equation. In a flat matter-dominated universe, it is equal to  $2/3$  divided by the age of the universe. Traditionally expressed in units of kilometers per second per megaparsec, it is named after the man who first discovered the proportionality between the rate of recession of a distant object and its distance. For ten points, what is this astronomical quantity?

**Answer:** Hubble parameter or constant

technically speaking, it's not a constant, but this is common usage, so accept it; prompt on an early "Friedmann equation"

3. Navigation on this river is limited by shoals and falls such as the Aughrabies, but it is extensively used for irrigation. Dams along the river include the Gariep and the Vanderkloof and the Vaal river is its chief tributary. It is called the Senqu in Lesotho, from where it rises. Forming the southern border of Namibia, for ten points, name this colorful river, the chief waterway of South Africa.

**Answer:** Orange River

4. Because Lewis Powell split his vote between the two sides of the argument, the plaintiff won an individual victory in this case, but the policy which he was challenging was also largely upheld. The plaintiff had twice been denied admission to the medical school at UC-Davis, and filed suit that its policies were a violation of the 14th Amendment, as he believed he had been denied admission to his race. For ten points, what is this landmark 1978 affirmative action case?

**Answer:** Regents of the University of California vs. Bakke

5. This man was recently sued by three men from the class of 1976 from Huntsville High School. They claim that, in 1993, he defamed them by using characters based on them in his movie, causing people to think that they were drug and alcohol users, as the characters, named Wooderson, Slater, and Floyd, are in the movie. For ten points, who is this man who is being sued for writing and directing "Dazed and Confused?"

**Answer:** Richard Linklater

6. His letter to Tryapichin is opened by Shpekin, who is compared to Mikheyev, a janitor; Zemlyanika is termed a pig in a nightcap; the superintendent is suspected of eating nothing but onions; and the chief of police is termed a stupid, grey jackass. The letter reveals how the central character was cleaned out by a highwayman and almost arrested at an inn in the village of Podkatilovka until his St. Petersburg dress made the citizens think that he was – for ten points– the holder of what titular office in a Nikolai Gogol work?

**Answer:** The Inspector General or Revizor or The Government Inspector

7. The holder of second place in this record is Art Monk, with 183, a record its current holder broke in October 1998. The closest active player, with 177, is former teammate Tim Brown, who tied with Steve Largent on the list on October 10, 2004. The current record-holder started his string after playing the Redskins on December 1, 1985, but it was finally broken when Rich Gannon failed to find him in a 13-10 victory over Buffalo on September 19, 2004. For ten points, what is this record held by Jerry Rice, with 274?

**Answer:** consecutive games catching a pass (or equivalent)

8. For real positive  $x$ , this function attains its minimum at 1.462, and its residue at a negative integer  $-k$  is given by  $\frac{(-1)^k}{k!}$ . At  $\frac{5}{2}$ , it has the value of  $\frac{3}{4}\sqrt{\pi}$ , and its value for  $\frac{1}{2}$  is equal to  $\sqrt{\pi}$ . It can also be defined as  $\int_0^\infty$  (read : integral from 0 to infinity)  $t^{z-1}e^{-t}dt$ , but most familiarly, it is defined by the recursive relation where its value for any number is equal to that number times its value for that number minus one. For ten points, what is this generalization of the ordinary factorial function?

**Answer:** gamma function (prompt on early “factorial”)

9. He wrote two novels, 1965's *The Interpreters* and 1973's *Season of Anatomy*, and several autobiographies, including *Ake: The Years of Childhood*, *Isara: A Voyage around Essay*, and 1972's *The Man Died*, the last about his arrest and imprisonment for allegedly conspiring to aid the Biafra secession. Which first black African Nobel Prize winner is best known for his plays, including, for ten points, *A Dance of the Forests*, *The Trials of Brother Jero*, *Kongi's Harvest*, and *The Lion and the Jewel*?

**Answer:** Akinwande Oluwole (“Wole”) Soyinka

10. The I (one) form is not very special, and exists above 2.174 K. The II (two) form exists below 2.174 K, and has many strange properties, such as a very high heat conductivity, a tendency to expand when cooled, and close to zero viscosity, all of which characterize superfluids. However, neither of these forms are likely to be seen outside the lab, as this element is a gas at all temperatures greater than around 4.2 K. For ten points, name this element, discovered by Janssen in 1868 during a solar eclipse.

**Answer:** He lium

11. One of its main characters, St. Jimmy, is introduced in a 3-minute long ditty. Another main character, Jesus of Suburbia, is introduced on a four-part nine-minute-long tune. The motif of *Boulevard of Broken Dreams* is introduced on track four and carried throughout the rock opera. Its title track and overture rallies against “mind-fuck America.” For ten points, name this new album from Green Day.

**Answer:** American Idiot

12. Its roots can be traced back to Thucydides, whose History of the Peloponnesian War contains an account of possibly the first instance of genocide in the world, the destruction of Melos, which, although it alienated Athens' allies and weakened its power base, was carried out in the hopes of preserving Athens' hegemony at sea. Since then, it has come to refer to successful policies, especially since Henry Kissinger applied it to China, practicing diplomacy rather than containment. For ten points, name this foreign policy not based on theory or ethics, but on practical concerns.

**Answer:** Realpolitik

13. The idea of a tax to eliminate these was first proposed by A. C. Pigou and is known as a Pigouvian tax. In a two-firm case, they can be eliminated by a merger, and Coase's Theorem creates a

similar result, implying that they can be negotiated away if (and only if) the transaction cost of bargaining is zero. In their most common form, they result in an overall lower efficiency, because the loss created by one party's actions is not borne by that party. For ten points, what is this economic term, referring to the side-effects of one party's action on other parties?

**Answer:** externalities

14. Maria Piltz played the chosen virgin in the 1913 Ballet Russe premiere of this ballet. Nicolas Roenich [rehn - ihk] collaborated on the ballet's sets and Nijinsky conducted its original choreography, which was abandoned when the ballet was performed again in 1920. Due to a controversial sacrifice, the ballet was performed purely as a symphonic work from 1913 to 1920. Conceived of as a succession of dance movements based on a set of prehistoric rituals, For ten points, name this ballet from Stravinsky famous for causing riots at its premiere.

**Answer:** The Rite of Spring or Le Sacre du printemps

15. She says that she was born "neither in wandering Delos, nor on the foaming sea, nor 'in deep caves,' but in the Fortunate Isles themselves" to "the best-looking as well as gayest of all the nymphs," and to Plutus, whom she calls "the real father of men and gods" and more powerful than Zeus and Pallas. Her nurses were Drunkenness and Ignorance, and she is attended by Self-love, Flattery, Forgetfulness, Laziness, Pleasure, Madness, and Sensuality. For ten points, name this character, an anthropomorphism praised by Erasmus.

**Answer:** Folly, accept moria or moriae or morium

16. Baha'ullah saw it as a state of being, not a place, and defined it as "Separation from me." The Chinese version is housed in a mountain of the same name, presided over by the Ten Kings of Yama, and ruled by Yan Luo Wang. Jerusalem's Vale of Hinnom, a site of child sacrifice to Moloch and later a place for burning refuse, gives its name to the New Testament Greek word for this place, "Gehenna," while its English name comes from the Norse goddess who was said to preside over it. For ten points, name this abode of the damned.

**Answer:** Hell (accept any equivalent with a negative connotation, if in doubt, prompt)

17. He really should have known better. The ironic death of this Han noble came when he journeyed to the kingdom of Qin (chin), supposedly to offer his assistance to its king, but really to save the kingdom of Han. Upon his arrival, he was captured and imprisoned at the recommendation of the Qin prime minister, Li Si, who was his fellow student under Xun Zi. Serves him right for doing something out of love, which, according to his philosophical code, didn't even exist. For ten points, name this Warring States scholar who denied the existence of any human emotion other than fear in the school of thought he founded, legalism.

**Answer:** Han Fei Zi

18. Commodore Barney led the last organized defense of this city, whose marines were forced to surrender when the militia units ran off with all the ammunition in a retreat so humiliating that the battle was known as the Bladensburg Races. The opposing force landed at Benedict on the Patuxent River, and only held this city for twenty-four hours. Upon hearing the news, Paul Jennings was ordered to save an eight hundred dollar painting of George Washington by Dolley Madison. For ten points, name this city burned by the British in 1814, the American capital.

**Answer:** Washington, District of Columbia

19. Uncle Hoskins takes the protagonist of this story out on a buggy ride and scares the protagonist into thinking that the buggy will fall into the Mississippi River. Hoskins is a proprietor of a saloon

in Elaine, Arkansas that caters primarily to black workers. Jealous of Uncle Hoskins' success, a lynch mob kills him. The story then chronicles the protagonist's experiences in the South and his emigration and integration into the North. For ten points, name this autobiographical work by Richard Wright.

**Answer:** Black Boy

20. Public Opinion, a mezzo-soprano, hounds the title character to get his wife back, although he is happy to be rid of her, unlike in other versions of his story. The title character loves Chloe and his wife loves Aristeus, who is Pluto in disguise. Pluto hides her in Hades, where Jupiter visits her disguised as a fly and turns her into a Bacchanate [bak - KAHN - ate] when she promises him her love. To keep her from her husband, Zeus sends a lightning bolt in front of him, causing, for ten points, the hero of what Jacques Offenbach operetta – which includes a famous can-can – to turn back and lose his wife while on his way out of the title location?

**Answer:** Orfee aux enfers (or Orpheus in the Underworld)

21. A 1969 Jacques Deray movie was named for and took place around one, as was a 2003 Francois Ozon film starring Charlotte Rampling as Sarah Morton. John Cheever's 1964 short story is about Neddy Merrill's trip home through a series of these. In the United States, 24 people a day have non-fatal accidents in them, while 6 people a day die in them. Olympic ones are 50 meters in length and 25 meters wide, divided into 8 lanes of 2.5 meters. For ten points, name these small bodies of water, often found in backyards.

**Answer:** swimming pools

22. Refinements of this equation include the BWRS equation, the Peng-Robinson equation, the Soave equation, and the Redlich-Kwong equation. It contains two constants not appearing in the equation it is derived from, and while it is an improvement above the critical temperature and in the liquid phase, it still does not correctly predict behavior in first-order phase transitions. First developed in 1873, its two additional terms represent the nonzero volume of molecules and intermolecular forces. For ten points, what is this modification to the ideal gas law?

**Answer:** Van der Waals equation of state (accept "ideal gas law" in the first sentence)

## 2 Berkeley A Bonuses, Round 1

1. Identify these classic battles from the American Revolution on a 5-5-10-10 basis.

5 Cornwallis surrendered after this 1781 campaign, ending most of the war.

**Answer:** Yorktown

5 This 1777 campaign was a critical victory for the Americans, who foiled Burgoyne's plan to bisect the colonies in New York.

**Answer:** Saratoga

10 Howe defeated Washington in this September 1777 battle, allowing him to capture Philadelphia.

**Answer:** Brandywine (do not accept Germantown)

10 After the battle of Cowpens, British forces in the south were further weakened in this March 1781 battle, though it was technically a British victory.

**Answer:** Guilford Courthouse

2. Name these Roman women, for ten points each.

10 Caesar's second wife, this granddaughter of Sulla was not above suspicion, having been involved in the Bona Dea scandal with Publius Claudius Pulcher, so Caesar divorced her.

**Answer:** Pompeia Sulla

10 When Septimius Severus was governor, he asked for this woman's hand in marriage, although he had never met her, because her horoscope foretold that she would be queen. She also wielded great influence during the reign of her son Caracalla.

**Answer:** Julia Domna (or Iulia Domna )

10 This daughter of an innkeeper or the Briton King Coel was the wife of Constantius and mother of Constantine, in whose court she had some influence, and is credited with finding the relics of the True Cross.

**Answer:** Flavia Julia (Iulia) Helena (or Saint Helena or Helena of Constantinople)

3. Identify the following for ten points each:

10 This 17th century Briton is best known for his diary, inspired both by his own vanity and the political turmoil at the time.

**Answer:** Samuel Pepys (pronounced peeps)

10 This 20th century American channeled his drug-fueled rage onto the page in "The Basketball Diaries."

**Answer:** Jim Carroll

10 The New York Times Book Review proclaimed her diaries as one of the best literary finds of the last 25 years. She is perhaps best known for novels set in her native Ohio, such as *My Home is Far Away* and her adopted home of Manhattan, such as *The Locusts Have No King*.

**Answer:** Dawn Powell

4. Name these treaties that ended World War I, for ten points each.



10 This chief treaty was signed on June 28, 1919, in the title location's Hall of Mirrors.

**Answer: Treaty of Versailles**

10 This 1920 treaty between the Ottoman Empire and the Allies (excluding Russia and the U.S.) abolished Turkish sovereignty, and although accepted by Sultan Muhammad VI, was rejected by Kemal Ataturk's rival government.

**Answer: Treaty of Sevres**

10 This June 4, 1920 treaty reduced Hungary's size by about two-thirds and was signed under protest by the Hungarian delegation to the titular palace.

**Answer: Treaty of Trianon**

5. Given information, identify the German painter for ten points each:

10 Also known for his etchings, this 15th and 16th century painter's earliest known work is a painting of his father. He is well known for his altarpieces, such as the Paumgartner Altar and the Adoration of the Trinity.

**Answer: Albrecht Durer**

10 This 20th century painter was a founder of the Dada movement in Paris. He invented the penciling technique of frottage and painted such works as *Napoleon in the Wilderness* and *The Hat Makes the Man*.

**Answer: Max Ernst**

10 This German Expressionist's *Skull* can be found in the etchings section of the Museum of Modern Art in New York. Many of his paintings, including *Trench Warfare* take on an anti-war theme. His other masterpiece is titled *Metropolis*.

**Answer: Otto Dix**

6. Identify the following, for ten points each:

10 Located in Southwestern South Dakota, this national park consists of 244,000 acres of sharply eroded buttes, pinnacles, and spires.

**Answer: Badlands National Park**

10 This name refers to a district located in a flat area of Northeastern New Jersey. Towns located here include Secaucus and East Rutherford.

**Answer: Meadowlands**

10 Inverness is the largest city located in this area of Scotland. Other attractions include Loch Ness and Dunvegan Castle.

**Answer: The Highlands**

7. The pair of stoners on a mission is a staple of comedic film. For ten points each, answer the following questions that may or may not have a marijuana-smoking duo in them.

(a) This John Hughes film stars Molly Ringwald and Anthony Michael Hall as a troubled girl on her birthday and the awkward teenager who loves her. It may help to know that this movie has a foreign exchange student named "Long Duk Dong."

**Answer: 16 Candles**

- (b) So what does *16 Candles* have to do with the lead-in? It's the favorite movie of a certain financial analyst who, along with a reluctant med student, get very hungry while smoking one night. Name them.

**Answer:** Harold and Kumar (Go To White Castle)

- (c) *16 Candles* is far from the favorite movie of this ~~movie's~~ pair of stoned slackers, as it's one of the reasons why they left New Jersey to go to Illinois. They end up going back home, accompanied by an angel, a dead man, and a very confused woman.

**Answer:** Jay and Silent Bob

8. Given a unique feature, identify the modern scripting language for ten points each.

- 10 The = (equals-tilde) operator, used to bind variables to regular expressions, appears in this language.

**Answer:** Perl

- 10 This language created by Guido van Rossum is infamous for its use of syntactic whitespace.

**Answer:** Python

- 10 In shell script, the left bracket is actually a command in its own right; it's just a synonym for this command.

**Answer:** test

9. Answer the following about syntax for ten points each.

- 10 According to basic syntactic theory, a sentence is generated in its deep structure, and then changed to its surface structure by means of these.

**Answer:** transformations

- 10 In this transformation, rare in standard American English but common in many dialects, the subject under discussion is moved to the beginning of the sentence.

**Answer:** topicalization

- 10 This theorist posited a much more general model of transformations, called "move-alpha," which states that any phrase can be moved anywhere in a sentence. With a few exceptions.

**Answer:** Noam Chomsky

10. Name the director from films, for ten points each.

- 10 *L'Atalante*, *Zero for Conduct*

**Answer:** Jean Bonaventure de Vigo Almeryda

- 10 *The Blood of a Poet*, *Beauty and the Beast*

**Answer:** Jean Maurice Eugene Cocteau

- 10 *Drole de drame* (*Bizarre, Bizarre in the U.S.*), *The Children of Paradise*

**Answer:** Marcel Carne

11. Answer the following about a forgotten nation for ten points each.

- 10 First, name this member of the "coalition of the willing" which Bush chided Kerry for forgetting in the first presidential debate.

**Answer:** Poland



- 10 This Polish foreign minister has announced that Poland plans to pull its troops out by January 2005.

**Answer:** Marek Belka

- 10 Viktor Yushchenko, strongly favored to win election in this country, has announced on the heels of Poland's decision that he will also withdraw troops from Iraq.

**Answer:** Ukraine

12. As the Red Sox proved this year, coming back from 3-0 deficits in a best-of-7 series is very, very unlikely.

- 10 Only two teams in the history of major sports (MLB, NFL, NBA, NHL) have ever accomplished the feat. Name either, one from 1942 and one from 1975, for ten points.

**Answer:** 1942 Toronto Maple Leafs (accept either) or 1975 New York Islanders (prompt on "New York")

- 10 Only twice in MLB history has a team even forced a Game 6 after being down 3-0. Name either (both year and team) for another ten points.

**Answer:** 1998 Atlanta Braves (accept either) or 1999 New York Mets (prompt on "New York")

- 10 The Mets' 1999 comeback attempt ended when this pitcher, known as "The Gambler," walked in the winning run in the bottom of the 11<sup>th</sup>.

**Answer:** Kenny Rogers

13. For the stated number of points, answer the following questions about the writer's favorite polyatomic ion.

- 5 This ion is primarily used by cells to store energy, as bonds between them contain approximately 36 kilojoules per mole.

**Answer:** phosphate

- 10 The attachment of phosphate to this carbon of a pentose is the reason nucleic acid polymerases can only operate in one direction.

**Answer:** 5

- 5 Normally, the phosphate on a nucleic acid is only bound to the 5 carbon, but in this chemical messenger, another of the oxygens is bound to the 3 carbon, giving this molecule a distinctive shape.

**Answer:** cyclic AMP or cAMP

- 10 Since phosphate is such an important substance, it's commonly provided as one of the three primary ingredients in plant fertilizer. For ten points, name either of the other two.

**Answer:** Nitrogen (accept ammonia/ammonium) or potash

14. Identify the author from his female characters on a 30-20-10-5 basis.

- 30 Grace Melbury, who is wooed by Giles Winterborn, a gentle cider presser, and Dr. Fitzpiers of the Buckbury Fitzpierses

- 20 The granddaughter of a retired captain who rejects Wildeve and spurns the infatuated Charley

- 10 That granddaughter is Eustacia Vye, who marries Clym Yeobright.

5 Tess Durbyfield.

**Answer: Thomas Hardy**

15. For ten points each, name the literary series from works in it, or for 5 if you need the author.

10 A Question of Upbringing, Hearing Secret Harmonies

5 Anthony Powell

**Answer: A Dance to the Music of Time**

10 The Man of Property, To Let

5 John Galsworthy

**Answer: The Forsyte Saga**

10 Rob Roy, A Legend of Montrose

5 Sir Walter Scott

**Answer: Waverly**

16. Answer these questions about the Odyssey, for ten points each.

10 Odysseus is king and Penelope queen of this land.

**Answer: Ithaca**

10 This is the leader of the Phaeacians, to whom <sup>Odysseus</sup>~~Odyssey~~ recounts his journey.

**Answer: Alcinous**

10 This swineherd was the only one of Odysseus' servants who remained faithful to him in his absence.

**Answer: Eumaeus**

17. Answer the following about the top quark, for the stated number of points:

5,5 The top decays almost exclusively into these two particles, one a boson and the other another quark. Name them for 5 points each.

**Answer: W+ boson and bottom quark**

10 Conclusive evidence for the top was first produced at CDF, a detector located at this Fermilab accelerator.

**Answer: Tevatron**

10 The primary way of producing tops at the Tevatron is by a quark-antiquark annihilation, but they can also be made by the fusion of two of these.

**Answer: gluons**

18. Name these sun deities for ten points each.

10 In early Greek mythology, this god was pretty much a simple personification of the sun, with a name to match, the Greek for "sun."

**Answer: Helios**

10 She was the Norse sun goddess, and shares her name with the Roman equivalent of Helios.

**Answer: Sol**

- 10 Appearing in the Epic of Gilgamesh, this Babylonian sun god is oddly enough the offspring of Nannar, the moon god.

**Answer:** Shamash or Sama or Utu

19. Identify these things found in a kitchen for ten points each.

- 10 This instrument composed of numerous wire loops can be used to whip egg whites or blend ingredients.

**Answer:** whisk

- 10 This is a round pan with high sides which can expand using a clamp or spring.

**Answer:** springform pan

- 10 This refers to a water-filled dish into which a food-carrying container is placed. Both dishes are then placed in the oven, to gently heat the food.

**Answer:** bain marie

20. Answer the following about a particularly delicious phylum, Mollusca.

- 10 Many mollusks possess this toothed tongue-like organ made of chitin which they use to scrape food off of rocks.

**Answer:** radula

- 10 Members of this especially tasty class of mollusks are distinguished by their two-part shells.

**Answer:** bivalves or bivalvia

- 10 This thick layer covers the mollusk body, and in many mollusks secretes a shell.

**Answer:** mantle

21. We hear quite a bit about Paris Hilton and her sister, Nicky, but how much do you know about her great-grandfather, Conrad? Answer the following about him for ten points each:

- 10 Conrad's second wife was this Hungarian beauty queen. Many liken Paris to her due to their common achievement of a high profile without any discernable talents.

**Answer:** Zsa-Zsa Gabor

- 10 Conrad's eldest son, Nicky, was the first husband of this Hollywood luminary who would go on to marry many times over.

**Answer:** Elizabeth Taylor

- 10 The first hotel to bear Conrad Hilton's name was opened in this city in 1925. Another famous hotel in the city is the Mansion on Turtle Creek.

**Answer:** Dallas , TX

22. Identify the following about Maimonides, for ten points each:

- 10 This is Maimonides' great philosophical work, in which he formulated a proof for the existence of God and expounded the principles of creation

**Answer:** Moreh Nevukhim or Guide for the Perplexed

- 10 Maimonides' organization and systemization of the corpus of Jewish law is entitled this.

**Answer:** Mishneh Torah or Torah Reviewed

- 10 Maimonides primarily wrote in this language.

**Answer:** Arabic