

# Round 6 1st Section Toss-up Questions

#### Question #1: Literature - U.S. Literature

10 points

This novel's narrator believes that the Combine secretly controls society, and calls the Chronics "the culls of the Combine's product". Within this story, a transfer from the Pendleton Work Farm realizes his newfound responsibility after Cheswick's suicide. The protagonist of this novel is put out of his misery following a lobotomy [luh-BAH-tuh-mee] that was ordered after he tried to strangle Nurse Ratched. This novel is narrated by Chief Bromden, and the man who tries to strangle Nurse Ratched is Randle McMurphy. Name this novel set in a mental health facility, written by Ken Kesey.

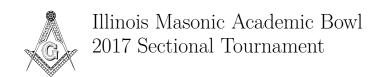
One Flew Over the Cuckoo's Nest

# **Question #2: Science – Biology**

10 points

This organelle is the destination of COPII ["coptwo"]-coated vesicles through anterograde [an-TAIR-oh-"grade"] transport. A malfunctioning phosphotransferase ["phospho-transfer-ace"] in this organelle results in inclusion-cell disease, which prevents this organelle from properly adding mannose-6-phosphate tags. Like the endoplasmic reticulum, this organelle consists of flattened sacs called cisternae [sis-TUR-nee], and has cis [siss] and trans faces. Identify this organelle responsible for packaging proteins, named after the Italian scientist who first identified it.

Golgi body [or Golgi apparatus or Golgi complex]



# Round 6 1st Section Toss-up Questions

## **Question #3: Miscellaneous – Sports**

10 points

This event has received recent major sponsorship from Paychex chairperson Tom Golisano. There is controversy as to whether or not this event was started because of Rosemary Kennedy. This event was first held at Soldier Field in Chicago in 1968. It was founded by Eunice Kennedy Shriver, and is symbolized by five stick figures in a circle. Through the Law Enforcement Torch Run, this event's Flame of Hope is transported to local and regional competitions. Name this athletic event that provides opportunities for people with intellectual disabilities.

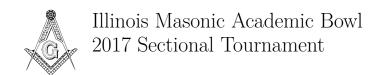
Special Olympics [do not prompt on "Olympics"; do not accept "Paralympics"]

## **Question #4: Social Studies – World History**

10 points

This monarch's forehead was scarred during an attack by army officer Robert Pate. This monarch's refusal to dismiss attendants impacted who became prime minister, and became known as the Bedchamber Crisis. This monarch hosted Louis-Philippe [loo-ee fee-leep] of France after the French monarchy was abolished. This leader was very supportive of Charles "Chinese" Gordon and was very critical of Prime Minister William Gladstone when Gordon died. This wife of Prince Albert gave birth to her successor Edward VII [7]. Name this queen who ruled England for 63 years, from 1837 until 1901.

Queen (Alexandrina)
Victoria (Hanover)



# Round 6 1st Section Toss-up Questions

#### **Question #5: Literature – British Literature**

10 points

This poet opened one poem with a description of Theocritus's [thee-oh-"CRY"-tuss'z] singing of the sweet years. One poem by this writer begins, "Yes, call me by my pet-name!". This writer's most famous collection of poems has a name that suggests it consists of translations, though it doesn't. This poet wrote "the breath, smiles, tears, of all my life" as an answer to her question "How do I love thee? Let me count the ways." Name this author of Sonnets from the Portuguese whose husband Robert was also a poet.

Elizabeth Barrett
Browning [prompt on
Browning]

## **Question #6: Mathematics – Math Concepts**

10 points

The sum of the reciprocals of these segments' lengths equals the reiprocal of the inradius of a triangle. The length of one of these segments equals the product of two triangle sides divided by twice the circumradius. The place where one of these segments touches the side of a triangle is called a foot, and the place where these segments all meet each other is the orthocenter. In a right triangle, two of these segments are the same as the legs, and in an obtuse triangle two of these segments are outside the triangle. Name these segments that go through a triangle vertex and are perpendicular to the opposite side.

**altitude**s of triangles [accept **height**s of triangles]



## **Question #7: Social Studies – Geography**

10 points per part

Asu	nción [ah-soon-see-OHN], the capital of	
Par	aguay, is on the border with this country.	
1	Name this country whose capital and most populous city is Buenos Aires [bway-nohss "EYE-race"].	Argentina [or Argentine Republic or República Argentina]
2	Argentina temporarily occupied these South Atlantic islands in 1982, but lost them in a war to the United Kingdom.	Falkland Islands or Falklands [or Islas Malvinas]
3	This city is the second most populous city in Argentina. It takes its name from a city in Andalusia [ahn-dah-loo-SEE-ah] in southern Spain just northeast of Seville.	Córdoba [KOR-thoh-bah]

# **Question #8: Social Studies – Geography**

		i o pointe poi part
This	s city contains the Azadi Tower, which	
com	bines a parabolic arch with a pointed arch,	
and	the Milad Tower, which is one of the twenty	
talle	est freestanding manmade structures in the	
wor	ld.	
1	Name this city 100 miles south of the Caspian	<u>Tehran</u>
	Sea and north of Qom [koom].	
2	Tehran is the capital of, and most populous city	(Islamic Republic of) <u>Iran</u>
	in, this country.	[or (Jomhuri-ye Eslami-ye)
		$[\underline{\mathbf{Iran}}]$
		-
3	This body of water southwest of Iran is also	Persian Gulf
	surrounded by Kuwait, Iraq, Saudi Arabia, the	
	United Arab Emirates, Qatar, and Bahrain.	



# **Question #9: Science – Physics**

10 points per part

The	2014 Nobel Prize in Physics was shared by	
scie	ntists who worked on a type of these devices	
that	emit blue light.	
1	Name these electric components that primarily	diodes [accept
	conduct electricity in one direction.	light-emitting <b>diode</b> s;
		prompt on $\underline{\mathbf{LED}}$ s]
2	Diodes are most commonly built using this	$\underline{\mathbf{silicon}}$ [accept $\underline{\mathbf{S}}$ ]
	element; this element is also the semiconductor	
	most commonly used in integrated circuits.	
3	Several diodes are often used to construct this	rectifier(s)
	kind of device, which is used to convert	
	alternating current into direct current.	

# **Question #10: Science – Physics**

Thi	s quantity is the moment of force, meaning	
tha	t is essentially a weighting of force according to	
whe	ere the force is exerted.	
1	Name this tendency of a force to make an	<u>torque</u>
	object rotate.	
2	Torque can make an object's axis of rotation	<b>precess</b> ion [or <b>precess</b> ing]
	[pause] rotate itself. What terms is given to	
	that phenomenon?	
3	This type of precession, which is used in nuclear	<u>Larmor</u> precession
	magnetic resonance imaging, is the precession	
	of magnetic moments in magnetic fields.	



## **Question #11: Literature – World Literature**

10 points per part

In t	his work from the Sturm und Drang [shtoorm	
oon	t drahng literary movement, the title	
chai	cacter reacts emotionally to the mention of	
Kloj	pstock [klohp-shtahk].	
1	Name this novel in which the protagonist tries	The Sorrows of Young
	to gain the love of Charlotte, who had married	$\underline{Werther}$ [VAIR-tair]
	Albert. When he realizes that one member of	[or Die <b>Leiden des</b>
	the love triangle has to die, he kills himself.	$[Jungen\ Werthers]$
2	This author of <i>The Sorrows of Young Werther</i>	Johann Wolfgang von
	also wrote about a scholar who strikes a deal	Goethe [GRR-tuh]
	with Mephistopheles, Faust.	
3	Werther is buried under this type of tree, which	<u>linden</u> tree [accept <u>lime</u>
	he had written about often to his friend	tree; accept answers
	Wilhelm [VIL-helm].	containing <u>Tilia</u> ]

#### **Question #12: Literature – World Literature**

Foll	owing this leader's victories at Genoa and	
Luc	ca, Anna Pavlovna called him the Antichrist.	
1	Name this real person who appears in a work of	Napoleon (I) Bonaparte
	fiction, in which Pierre Bezukhov	[accept either underlined
	[BEH-zhoo-kawff] idolizes him before meeting	name]
	him. When this character enters Moscow,	
	Pierre becomes obsessed with assassinating him.	
2	Name the novel just described, by Leo Tolstoy.	War and Peace [or
		$\underline{Voyna\ y\ Mir}$
-	A.C. I D.I.I. D. D. II .	D.
3	After shooting Dolokhov, Pierre Bezukhov is	Free <u>mason</u> y or
	introduced to this organization by Osip	Free <u>mason</u> s
	Bazdeyev [bahz-DAY-eff].	



# **Question #13: Mathematics – Probability**

10 points per part

If yo	ou raise this type of polynomial to the power	
of a	positive integer, the extra coefficients that	
resu	lt are a row in Pascal's triangle.	
1	Give this word for a polynomial that has two	<u>binomial</u> s
	terms.	["by"-NOH-mee-ul]
2	Binomial expansion is useful when solving	<u>3/8</u> or 0 <u>.375</u> or <u>37.5%</u>
	probability problems. If a fair coin is tossed three times, find the probability that it will	
	come up heads exactly twice.	
3	If a coin is weighted so that it is supposed to	4/9 or $0.4$ repeating
	come up heads $\frac{2}{3}$ of the time, find the	
	probability that it will come up heads exactly	
	twice if it is tossed three times The answer is	
	not 1.	

## **Question #14: Mathematics – Probability**

Sup	pose you roll two fair, standard, six-sided dice.	
1	Find the probability that the sum of the	1/36
	numbers that come up is 12.	
2	To calculate that answer, you can multiply $\frac{1}{6}$	independence or
	times $\frac{1}{6}$ ; the reason that works is that the	independent events
	outcomes of the dice have this relationship to	
	each other, meaning that the outcome of one is	
	not related to the outcome of the other.	
3	Find the probability that the sum of the	7/36
	numbers that come up is either 9 or 10. Give a	
	single answer.	



## Round 6 3rd Section Toss-up Questions

## **Question #15: Science – Astronomy**

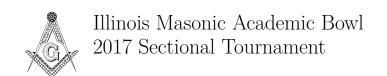
10 points

Most of these objects are classified as diffuse, a	<u>nebula</u> s [or <u>nebula</u> e]
category that can be broken down further into	
emission and reflection types. Those types of these	
objects are also called HII ["H two"] regions. The	
examples of these objects that form from red giant	
stars were misnamed by William Herschel. Galaxies	
outside our Milky Way were formerly mistakenly	
classified as these objects. Some of these objects are	
supernova remnants. The term for these large	
groups of dust and gas comes from the Latin word	
for "cloud". Name these objects of which Messier	
[meh-syay] One, nicknamed "Crab", is an example.	

## **Question #16: Social Studies – Economics**

10 points

This person wrote "Corn is a necessary, silver is	Adam <u>Smith</u>
only a superfluity" in the same book in which he	
wrote "the real measure of the exchangeable value	
of all commodities" is the amount of labor it can	
allow a person to purchase or command. He used	
the notions of the impartial spectator and the	
propriety of action in his book <i>The Theory of Moral</i>	
Sentiments. His later book used the example of a	
pin factory to demonstrate the benefits of the	
division of labor and the unintended social benefits	
that occur under capitalism. Name this Scottish	
economist who wrote about the invisible hand in	
The Wealth of Nations.	



## Round 6 3rd Section Toss-up Questions

### **Question #17: Fine Arts – Classical Music & Opera**

10 points

This composer wrote the aria "Recondita armonia" [ray-kohn-DEE-tah ar-MOH-nee-ah], which is sung by a painter making a portrait of Mary Magdalene. In another aria by this composer, "Un bel dì", the title character imagines a ship returning with her husband, a U.S. Navy Lieutenant. Franco Alfano completed this composer's final opera, which includes the aria "Nessun [NEH-soon] dorma", whose singer expresses confidence in his ability to win the Chinese princess. Name this composer who wrote about Mario Cavaradossi in *Tosca*, about Calàf in *Turandot* [TUR-ahn-doh], and about Cio-Cio-san [CHOH-choh sahn] in *Madame Butterfly*.

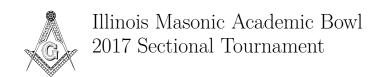
Giacomo (Antonio Domenico Michele Secondo Maria) **Puccini** [JAH-koh-moh poot-CHEE-nee]

## Question #18: Social Studies – U.S. History

10 points

In 1811, several slaves marched towards this city,	New
burning plantations as they went, in the German	
Coast Uprising. After the Union took control of	
this city, it placed Benjamin Butler in charge, but	
he became so unpopular that he was replaced by	
Nathaniel Banks. The pirate Jean Lafitte zhahn	
lah-feet supported Andrew Jackson in a major U.S.	
victory near this city that was fought against the	
British between the signing and the ratification of	
the Treaty of Ghent that ended the War of 1812.	
Much of this city was flooded in 2005 by Hurricane	
Katrina. Name this city in Louisiana.	

New Orleans, Louisiana



## Round 6 3rd Section Toss-up Questions

#### Question #19: Literature – World Literature

10 points

One member of this fictional group helped the dying Ilyusha [eel-YOO-shah] gain the adoration of his schoolmates even though Ilyusha had earlier bitten his finger. A person who is rumored to be part of this group is raised by Grigory and Marfa after his mother, nicknamed Reeking Lizaveta, dies in childbirth. Another member of this group wrote the poem "The Grand Inquisitor". This group consists of Dmitri, Ivan, Alexei, and Pavel, all of whom are the sons of Fyodor [f'yoh-dor]. Name this group of siblings in a novel by Fyodor Dostoyevsky [dawss-toy-EV-skee].

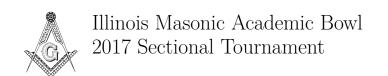
the Brothers
Karamazov [or Brat'ya
Karamazovy; accept
similar answers containing
both underlined words;
accept Dmitri, Ivan,
Alexei, and Pavel in any
order before "Dmitri";
accept Fyodor
Karamazov's sons before
"Fyodor"]

## **Question #20: Science – Chemistry**

10 points

In one type of this situation, the partition coefficient describes the ratio of two phases. The connection between this situation and chemical kinetics is established by the law of mass action, which explains why various constants can be used for various examples of this situation. When this situation is reached at constant pressure and temperature, the Gibbs free energy is minimized. If one of these situations is disturbed by changing conditions, then its position moves, according to Le Châtelier's [l'-shaht-lee-ay'z] principle. Name this situation in which the forward reaction occurs at the same rate as the reverse reaction, causing concentrations to remain constant.

(chemical) **equilibrium** [accept partition **equilibrium**]



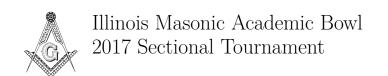
## **Question #21: Fine Arts – Art History**

10 points per part

Thi	s artist's best-known work was originally part	
of 7	The Gates of Hell.	
1	Name this French sculptor of <i>The Thinker</i> .	(François-)Auguste(-René)
		Rodin [oh-goost roh-dan]
2	This Auguste Rodin sculpture shows a man	The <b>Walking Man</b> [or
	without his head and arms.	L' <u>homme qui marche</u> ]
3	Several Rodin sculptures, including <i>The</i>	bronze
	Burghers of Calais and The Walking Man, are	
	made of this metal. A life-size human sculpture	
	by Rodin is named <i>The Age of</i> this metal.	

# **Question #22: Fine Arts – Art History**

		i o ponito por pont
Trac	cy Chevalier [shev-ah-lee-ay] wrote a book	
abo	ut the creation of this painting that was	
turr	ned into a movie starring Scarlett Johansson.	
1	Name this painting in which the subject is	Girl with a Pearl
	wearing a colorful headscarf and a round	$\underline{Earring}$
	hanging piece of jewelry.	
2	Girl with a Pearl Earring was painted by this	Jan <u>Vermeer</u> [yahn
	Dutch artist.	vur-MEER] [or Johan
		<b>Vermeer</b> or Johannes
		$\underline{\mathbf{Vermeer}}$
		•
3	This Vermeer painting shows a man with an	The ${m Astronomer}$
	open hand near a celestial globe. It is similar to	
	his The Geographer.	



# **Question #23: Social Studies – U.S. History**

10 points per part

The	first of these principles was the elimination of	
priv	ate international understandings.	
1	Name this set of goals outlined by Woodrow	Fourteen Points
	Wilson while negotiating the end of World War	
	I.	
2	The fourteenth point led to the creation of this	League of Nations
	international organization, but the United	
	States ended up not joining it.	
3	This Senate Majority Leader from	Henry Cabot <b>Lodge</b>
	Massachusetts opposed the League of Nations,	
	saying "The United States is the world's best	
	hope."	

## **Question #24: Social Studies – U.S. History**

The	e name of this network is believed to come from	
a fr	ustrated slave owner after Tice Davids escaped.	
1	Name this network that helped slaves escape.	<u>Underground Railroad</u>
2	The Fugitive Slave Act, which Congress passed to force the return of escaped slaves, was strengthened as part of this package of bills that admitted California as a free state.	Compromise of 1850
3	In 2015, this Columbia University historian completed Gateway to Freedom: The Hidden History of the Underground Railroad. His previous books include The Fiery Trial: Abraham Lincoln and American Slavery.	Eric <u>Foner</u>



# **Question #25: Science – Chemistry**

10 points per part

Sub	stances in this state of matter have essentially	
fixe	d volume, but variable shape.	
1	Name this state of matter.	<u>liquid</u> (s) [accept
		liquidity]
2	The elements francium ["France"-ee-um],	bromine and mercury
	cesium [SEE-zee-um], gallium [GAL-ee-um],	[either order]
	and rubidium [roo-BID-ee-um] are liquid at	
	conditions close to standard temperature and	
	pressure. Name the two elements that are	
	liquid $at$ standard temperature and pressure.	
3	In this phenomenon, a liquid flows naturally	capillary action or
	through narrow spaces, often against gravity.	<b>capillarity</b> [or <b>capillary</b>
	This phenomenon, which is used by plants and	motion]
	trees, is caused by a combination of surface	
	tension and adhesion.	

## **Question #26: Science – Chemistry**

Pho	sphorous comes in white, red, scarlet, violet,	
and	black varieties, demonstrating this concept.	
1	Give this term for elements that exist in	allotropes [or allotropy
	multiple forms.	or <u>allotropism</u> ]
2	In 2010, the Nobel Prize in Physics was	graphene
	awarded for the study of this two-dimensional	
	allotrope of carbon, whose atoms form a	
	hexagonal pattern.	
3	Several other allotropes of carbon with a	(Richard) Buckminster
	hexagonal pattern are named for this person,	Fuller [accept fullerenes]
	because they resemble the geodesic domes he	
	designed.	



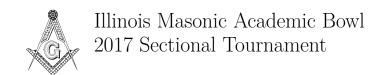
## **Question #27: Literature – U.S. Literature**

10 points per part

Afte	er this event, Mr. Medbourne, Colonel	
Killigrew, Mr. Gascoigne ["gas-coin"], and the		
Wid	ow Wycherly all decide to venture to Florida	
"to	quaff at morning, noon, and night"	
1	Name this event in which a rose is dipped into	Dr. <b>Heidegger</b> 's
	special water.	<b>experiment</b> [prompt on
		experiment; accept
		similar answers containing
		both underlined parts]
2	"Dr. Heidegger's Experiment" was written by	Nathaniel <b>Hawthorne</b> [or
	this author, as was The Scarlet Letter.	Nathaniel <u>Hathorne</u> ]
3	The rose that Dr. Heidegger dips in the water	Sylvia Ward [accept
	from the Fountain of Youth was given to him	either]
	by this woman, who died the day before she	-
	was supposed to marry him.	

## **Question #28: Literature – U.S. Literature**

Thi	s object is found "beside the white chickens".	
1	Name this object that "so much depends upon".	red <u>wheelbarrow</u>
2	This Imagist author wrote "The Red Wheelbarrow", as well as "This Is Just To Say".	William Carlos Williams
3	In "This Is Just To Say", the narrator admits to eating these items, which were "so sweet and so cold."	the <b>plum</b> s that were in the icebox [prompt on <b>fruit</b> s]



## Round 6 5th Section Toss-up Questions

## **Question #29: Mathematics – Math Concepts**

10 points

Rosser's theorem states that the nth of these numbers is greater than n times the natural log of n, which is similar to the fact that there are asymptotically ["ASS-imp"-TAH-tik-lee] n over log n of these numbers less than or equal to n. By considering the product of all of these numbers, and adding one to that, Euclid proved that there are infinitely many of these numbers. The sieve of Eratosthenes ["air-uh-TOSS"-thuh-neez] finds these numbers by crossing out all composite numbers. Name these numbers whose only positive factors are 1 and themselves.

**prime** numbers or **prime**s

## **Question #30: Social Studies – World History**

10 points

$\overline{ ext{Darius I}}$ [or $\overline{ ext{Darius the}}$
Great; prompt on
<u>Darius</u> ]
(



## Round 6 5th Section Toss-up Questions

#### **Question #31: Literature – British Literature**

10 points

In this novel, the cry "Kill it! Kill it!" is heard as a man whips a woman whom he called a "strumpet". One character in this novel opts to read Romeo and Juliet instead of attending a dinner party featuring the Arch Community Songster. Through the Bokanovsky [BOH-kuh-NAWF-skee] process, citizens of the World State in this novel are separated by class into categories named Alpha through Epsilon. This novel is set during the year 632 After Ford, and part of it takes place at a Savage Reservation. Name this dystopian novel featuring Mustapha Mond and John the Savage, written by Aldous Huxley.

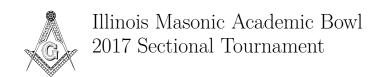
#### Brave New World

### **Question #32: Science – Physics**

10 points

This scientist's namesake law can be derived using the equation "energy density equals 8 pi times frequency squared divided by the speed of light cubed". For low frequencies, that law developed by this person approximates the Rayleigh-Jeans [RAY-lee "jeans"] law, and for high frequencies it approximates the Wien [veen] approximation. This person assumed that oscillation energy was quantized in developing a law describing blackbody radiation. Name this German scientist who gave a ratio of energy to frequency of about 6 times  $10^{-34}$  ["10 to the negative 34th"] joule-seconds, which is now called his namesake constant and represented by a lowercase h.

Max <u>Planck</u> [accept <u>Planck</u>'s law or <u>Planck</u>'s constant]



## **Round 6 Extra Section Toss-up Questions**

# Extra Question #1: Social Studies – U.S. History

10 points

In a letter to Charles Yancey, this person wrote	Thomas <b>Jefferson</b>
that a nation will never be both "ignorant and free".	
While this person was president, he broke with	
"Quids" in his party, who were led by John	
Randolph. He avoided war with Britain after the	
Chesapeake-Leopard Affair and British insistence	
that impressment would continue, opting instead	
for the Embargo Act. The 12th amendment	
changed how elections worked after this person's	
electoral tie with Aaron Burr. Name this drafter of	
the Declaration of Independence who became the	
third U.S. president.	

## Extra Question #2: Science – Physics

10 points

This person's formulation of physics, which is	Carl Friedrich (
equivalent to the Lagrange-d'Alembert [luh-grahnzh	[rhymes with "h
dal-um-bair] principle and Hamilton's principle of	
stationary action, is his principle of least constraint.	
The process of removing a magnetic field, often	
used in old CRT displays, is named for this	
physicist. One of the laws named for this scientist	
eliminates the possibility of magnetic monopoles by	
stating that the divergence of a magnetic field is	
zero. Another law named for this person states that	
the electric flux through a closed surface is	
proportional to charge. Identify this physicist for	
whom two of Maxwell's equations are named.	

Gauss 'house"]



# Round 6 Extra Section Toss-up Questions

### Extra Question #3: Fine Arts – Art History

10 points

Though it can't be seen in the painting, this work is set near an insane asylum where the artist's sister lived. When this painting was stolen in 1994, a note was left behind saying "Thanks for the poor security." There are two pastel and two painting versions of this artwork, whose background red sky may have been inspired by the faraway eruption of Krakatoa. This painting was made in 1893 in Norway. Name this work showing a man on a bridge with his hands on the side of his head and his mouth wide open, by Edvard Munch [moonk].

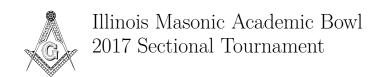
The **Scream** [or **Skrik**]

#### Extra Question #4: Literature – U.S. Literature

10 points

In this poem, a spotted hawk complains of the narrator's "gab and [his] loitering", though the narrator describes himself as "not a bit tamed and untranslatable". The reader is told to "keep encouraged" in searching for the speaker, who is "somewhere waiting for you". This poem admits to being contradictory before saying, "I am large, I contain multitudes." This poem is narrated by a man "now thirty-seven years old in perfect health", who claims that "every atom belonging to me as good belongs to you". Name this Walt Whitman poem written in the first person.

"Song of Myself" [accept
"Poem of Walt
Whitman, an
American"]



# Round 6 Extra Section Toss-up Questions

### **Extra Question #5: Mathematics – Math Concepts**

10 points

Hilbert's 10th problem asked for an algorithm about the type of these things named for

Diophantus ["die"-oh-FAN-tuss]. After taking calculus and linear algebra, it's common for the next math class people take to be about the differential type of these things. The quadratic formula is used when one side of these things is a second-degree polynomial ["poly"-NOH-mee-ul] and the other side is zero. When these statements are true for all possible values of variables, they are called identities. Name these statements that declare that two sides must have the same value.

equations [accept
equality/ies; accept
Diophantine equations]



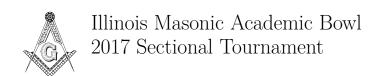
## Extra Question #6: Literature – U.S. Literature

10 points per part

This	s poet wrote that Christians that were "black	
as Cain, may be refined, and join th' angelic		
trai	n."	
1	Name this poet who asked that the Goddess	Phillis <b>Wheatley</b>
	guide the every action of our first president in	
	"To His Excellency General Washington."	
2	At 17, Phillis had published one of these poems	elegy [accept elegaic
	"on the death of George Whitefield". In another	poem] (The Gray poem is
	poem of this type, Thomas Gray wrote that	"Elegy Written in a
	"the paths of glory lead but to the grave."	Country Churchyard".)
3	Two answers required. Most of Wheatley's	(Poems on Various
	poetry was collected in a volume entitled	Subjects,) Religious and
	"Poems on Various Subjects," with the subtitle	Moral [accept answers in
	specifying these two subjects.	either order]
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## Extra Question #7: Literature – U.S. Literature

This	s farmer bought the slave Pearl Blossom, who	
serv	red his concubine, Lotus.	
1	Name this character. Shortly after the birth of	Wang Lung [accept
	his first son, his wife suggests that they	either]
	purchase land from the struggling House of	
	Hwang, from where his wife came.	
2	Pearl Buck wrote a trilogy of books about	The <u>Good Earth</u>
	Wang Lung's family; the trilogy as a whole, and	
	the first book, both have what name?	
3	The Good Earth takes place in the early 20th	China [or Zhongguo]
	century in this Asian nation. Dream of the Red	
	Chamber is considered one of its Four Great	
	Classical Novels.	



# Extra Question #8: Mathematics - Geometry

10 points per part

	polygon has this property, then all of its gonals are within the polygon.	
1	Name this property.	convexity or convex polygon
2	Equivalently, every interior angle of a convex polygon must measure less than this number of degrees.	180 degrees [accept <b>pi</b> radians]
3	Find the number of diagonals of a convex polygon with 11 sides.	44 diagonals

# Extra Question #9: Mathematics – Geometry

The	Hancock Center in Chicago is essentially in	
this shape.		
1	Give the term for a section of a cone or	<u>frustum</u> [do not accept
	pyramid cut off by a plane.	"frustrum"]
2	What term refers to the distance from the edge	slant height (do not
	of the base of a cone to the apex of the cone?	accept "slant" or "height")
3	Find the ratio of the <i>volumes</i> of the two parts	7 to 1 or 1 to 7 or 1/7
	of a cone if it is sliced by a plane parallel to the	
	base, halfway between the circle and the apex.	
	It doesn't matter whether you put the larger	
	part first or second.	