Geometry 2-2 Logic

Name:		Time> Start:	Finish:	Total Time =		
Co	nsider the following	ng statements:				
a:	you like flowers		c: you have green	-		
b:	you can't run fas	st	d: you can't whist	le		
Tel	ll what the followi	ng mean.				
1.	$a \rightarrow b$					
2.	a → ~c					
3.	$\sim d \rightarrow b$					
4.	~c → ~b					
5.	$c \rightarrow d$					
6.	$d \rightarrow \sim d$					
7.	~b → ~c					
	8. 9.	What is the sym	bolic representation o cop"? (2007 SOL que	a computer" is represented by p → q. of "If you have a computer, then you lestion) (2007 SOL question)		
		A. $r \rightarrow p$	B. $p \rightarrow r$	C. $\sim r \rightarrow p$	D. $r \rightarrow \sim p$	
10. Let p represent $\sqrt{11} = z$, and let q represent z is a rational number. Which is a representation of the statement: "If $\sqrt{11} = z$, then z is not a rational number"? (2005 SOL question) A. $\sim p \rightarrow \sim q$ B. $p \rightarrow q$ C. $p \rightarrow \sim q$ D. $\sim q$						
	11. Co	Which of the fol	wo angles is 90°. es are complements. lowing is a symbolic re not complements, the	representation of the stander the sum of the two as		

A. $\sim q \rightarrow \sim p$ B. $\sim p \rightarrow \sim q$ C. $q \rightarrow p$ D. $p \rightarrow q$

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12.	Let the	10110 111115	represent	uic	511011	statellicitis.

- p: $\angle A$ is acute
- q: $\angle B$ is acute
- n: $\angle C$ is obtuse

Use symbolic language to represent the following (don't worry if the statement makes any sense or not)

- A.) $\angle A$ is acute if and only if $\angle B$ is acute
 - B.) $\angle A$ is acute or $\angle B$ is acute
 - C.) Therefore, $\angle A$ is acute and $\angle B$ is acute
 - D.) If $\angle A$ is acute or $\angle B$ is acute, then $\angle C$ is not obtuse.
- E.) If $\angle C$ is obtuse, then $\angle A$ is acute and $\angle B$ is acute.

13. Let p represent
$$x^2 = 2I$$
 and let q represent x is not a whole number.

Which is a representation of the statement below? ______ (2008 SOL question)

If x is a whole number, then $x^2 \neq 2I$.

- A. $\sim p \rightarrow \sim q$ B. $\sim p \rightarrow q$ C. $p \rightarrow \sim q$ D. $\sim q \rightarrow \sim p$

14. Let
$$p = An$$
 equation is of the form $y = mx + b$. (2010 SOL question)
Let $q = Its$ graph is a line.

Argument: If an equation is of the form y = mx + b, then its graph is a line. The graph is not a line.

Therefore, the equation is not of the form y = mx + b.

Which of the following is a symbolic representation of the given argument?

A.
$$p \to q$$

$$\sim q$$

$$\therefore \sim p$$