

**DEPARTMENT OF EDUCATION
PRE-TEST IN MATH 8**

Instructions: Read each item carefully. Write the letter of the correct answer before each number. Please use CAPITAL letters only.

1. Find m so that $mx^4 - 42x^2 + 49$ is a perfect square.
A. 25
B. 16
C. 9
D. 4

2. Factor completely: $x^6 + x^2 - 2$
A. $(x-1)^2(x+1)^2(x^2-x+1)(x^2+x+1)$
B. $(x-1)(x+1)(x^2-x+1)(x^2+x+1)$
C. $(x-1)(x+1)(x^2-2x+1)(x^2+2x+1)$
D. $(x^2-1)(x^2+1)(x-1)(x+1)$

3. If $x + 2y = 30$, find the value of $\frac{x}{5} + \frac{2y}{3} + \frac{2y}{5} + \frac{x}{3}$
A. 10
B. 16
C. 13
D. 20

4. If $\frac{1}{x^2-9} = \frac{A}{x+3} + \frac{B}{x-3}$, what is A and B?
A. $\left[A = -\frac{1}{6}, B = \frac{1}{6}\right]$
B. $\left[A = -\frac{1}{6}, B = -\frac{1}{6}\right]$
C. $\left[A = \frac{1}{6}, B = \frac{1}{6}\right]$
D. $\left[A = \frac{1}{6}, B = -\frac{1}{6}\right]$

5. Given: $x = \frac{1}{\sqrt{2}}(\sqrt{7} + \sqrt{5})$ and $y = \frac{1}{\sqrt{2}}(\sqrt{7} - \sqrt{5})$, find the numerical value $x^2 + y^2$.
A. 6
B. 10
C. 12
D. 24

6. Solve the systems of equation below

$$\frac{6}{x+2} + \frac{4}{1-y} = 19$$

$$\frac{4}{x+2} + \frac{6}{1-y} = 21$$

- A. $(-7/3, 3/5)$ C. $(7/3, 3/5)$
B. $(-7/3, -3/5)$ D. $(-7/3, -3/5)$
7. Translate: The difference of the number of 500-peso tickets (p) and 100-peso tickets (q) is not less than 50.
A. $500p - 100q > 50$
B. $p - q > 50$
C. $500p - 100q \geq 50$
D. $p - q \geq 50$

8. If $f(x) = 1 - f(1-x)$ for all real x , evaluate the expression below

$$f\left(\frac{1}{999}\right) + f\left(\frac{2}{999}\right) + f\left(\frac{3}{999}\right) + \dots + f\left(\frac{998}{999}\right)?$$

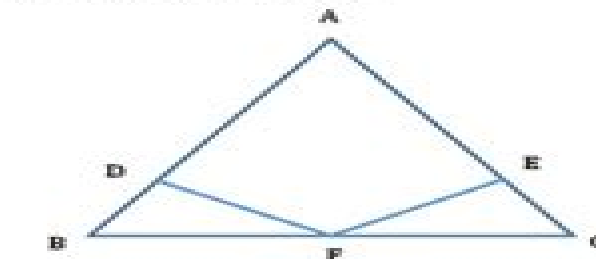
- A. 999
B. 499
C. 498
D. 0

9. Which statement is equivalent as "If two lines intersect to form a right angle, then they are perpendicular?"
A. if two lines are perpendicular, then they intersect to form a right angle.
B. if two lines intersect and does not form a right angle, then they are not perpendicular.
C. if two lines are not perpendicular to each other, then their intersection does not form a right angle.
D. if two lines intersect to form a right angle, then they are not perpendicular.

10. If two angles are vertical angles, which conclusion could you make?

- A. $m\angle A > m\angle B$
B. $m\angle A + m\angle B = 90^\circ$
C. $m\angle A = m\angle B$
D. $m\angle A + m\angle B = 180^\circ$

11. In $\triangle ABC$, $m\angle A = 66^\circ$. F is the midpoint of BC and $FD \perp AB$, $FE \perp AC$. If $FD = FE$, what is the measure of $\angle CFE$?



- A. 66
B. 33
C. 30
D. 20

Geometry Pretest And Answer Key

Siddappa N.Byrareddy



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