

**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

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

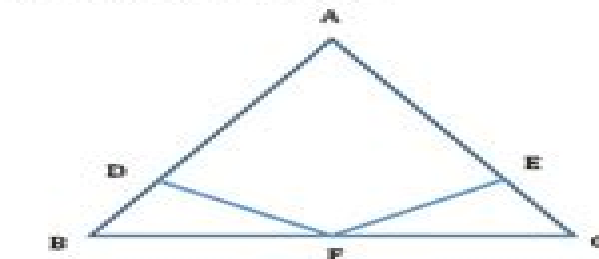
- A. 999
B. 499
C. 498
D. 0

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

Michal Rosen-Zvi



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web the internal thermoregulation process is one aspect of homeostasis a state of dynamic stability in an organism's internal conditions maintained far from thermal equilibrium with its environment the study of such processes in zoology has been called physiological ecology

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web sep 1 2015 thermoregulation is the maintenance of a relatively constant core body temperature humans normally maintain a body temperature at 37 c and maintenance of this relatively high temperature is critical to human survival

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web abstract this review discusses human thermoregulation during exercise and the measurement of body temperature in clinical and exercise settings the thermoregulatory mechanisms play important roles in maintaining physiological homeostasis during rest and physical exercise physical exertion poses a challenge to thermoregulation by causing a

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web mar 1 2014 homeostasis the control of an internal environment to maintain stable relatively constant conditions is a key concept in physiology 1 in endothermic species including humans homo sapiens the control of body temperature is fundamental to the control of a suitable internal environment