

Pre-Test for Geometry

Name: _____ Date: _____

Proctored by: _____

Directions: Parents please print the test (2 pages) and proctor your child while they take the test. Have your child show all work on a separate sheet of paper. Please do not assist your child in any way, even to explain what the question means. Please sign and date all pages and return to Mrs. Beisel via US Postal Service mail as soon as possible to: Thank you.

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Simplify

1) $(-12)(-3) - (4)(-8)$

2) $2^3 \cdot 5 + 3 \cdot 5 - 4^2$

3) $(3x^2 + 2x - 5) + (2x^2 - 8x + 3)$

4) $(4x - 3y) - (2x + y)$

6) $(2x^2)(-8x^3)$

5) $(x + 7)(x - 3)$

7) $\sqrt{81}$

Simplify; Write as a simplified radical

8) $\sqrt{54}$

9) $(5\sqrt{6})(4\sqrt{2})$

10) $\frac{\sqrt{10}}{\sqrt{2}}$

Plot the following points on the xy-axis. Use graph paper.

11) A (3,2) B (-1, 5) C (0, -2) D (6, 0) E (-4, -1) F (5, -3)

Continue on next page

Solve the system of equations. Show your work.

$$\begin{aligned} 12) \quad & 2x - y = -10 \\ & 3x + 4y = 1 \end{aligned}$$

Solve for the variable. Show your work.

$$13) \quad 8x + 5 = 2x - 7$$

$$14) \quad 4y - 2 + 3y = 15 + y - 5$$

$$15) \quad \frac{x}{8} - \frac{1}{6} = \frac{1}{6}$$

$$16) \quad x^2 + 8^2 = 10^2$$

$$17) \quad \frac{3}{2x+5} = \frac{1}{x+1}$$

$$18) \quad \frac{2}{x} = \frac{x}{18}$$

$$19) \quad x^2 - 2x - 24 = 0$$

$$20) \quad 3x - 5 < x + 11$$