Geometry Readiness Test

To Student:

There are certain Algebra skills we use all throughout the year which should be mastered for optimum performance in Geometry. Without these skills, it will be a struggle to pass Geometry and any other future math class.

1) Please Test Yourself

The test starts on next page

Geometry Readiness Test

Student Score: _____ out of 20 questions were correct.

Write on this test showing your work.

Only use your calculator for #20.

All other answers should be reduced completely by hand.

Geometry Readiness Exam

1) Solve
$$2x + 7 = 5x - 12$$

7) Solve $x^2 - 144 = 0$

2) Solve
$$-4(5x-3) = 7(-2x+6)$$

8) Solve $x^2 - 7x + 12 = 0$

3) Solve
$$\frac{1}{2}x - \frac{3}{4} = \frac{3}{4}x + \frac{5}{4}$$

9) Solve $x^2 - 6 = 22$

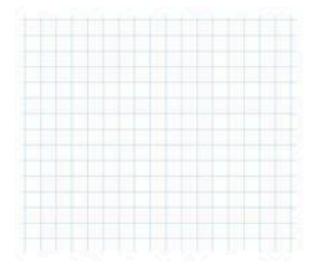
4) Solve this inequality -7x > 56

5) Solve
$$.7 + .1x = -.6$$

a. $x - 2y = 5$ and $2x - 3y = -6$

6) Solve $\frac{2(x-10)}{3} = \frac{x}{3}$

- 11) Graph with detail and find the slope of y = -2x + 6
- 12) Graph with detail and find the slope of y = -4
- 13) Graph with detail and find the slope of x = -2



14) What are the x and y intercepts of 3x - 2y = 12

15) Simplify
$$(x^2)^3 \cdot (x^3)^4$$

18) Simplify (2-3-(3)

16) Simplify

a. $\sqrt{12}$ b. $\sqrt{8}$ c. $8\sqrt{20}$ d. $\sqrt{75}$

17) Simplify in radical form 7√6 – 19√6 + √24 19) $a^2 + b^2 = c^2$, If a=6, c=9 find b in radical form

20) Use your Calculator: a. (Round to the nearest tenth) Find the value: 7.√10 - 2.√13 =

Answer Key:

Video Solution Links:

Problems 1-3 Problems 4-6 Problems 7-10 Problems 11-15 Problems 16-20

> 1) **x**= $\frac{19}{3}$ 2) x= -5 3) x= -8 4) x< -8 5) x= -13 6) x= 20 7) x= ± 12 8) x= 3 and x= 4 9) x= $\pm 2\sqrt{7}$ 10) x= -27 and y= -16 (-27, -16) 11) 12) 13) 3-2446 X=-2 M=-4 0

14) x intercept is (4,0), y intercept is (0,-6) 15) x^{18} 16) a. $2\sqrt{3}$ b. $2\sqrt{2}$ c. $16\sqrt{5}$ d. $5\sqrt{3}$ 17) $-10\sqrt{6}$ 18) x= -18 19) $b =\pm 3\sqrt{5}$ 20) 14.9