

Honors Geometry

Algebra Review Practice Test A

Name _____ Block _____

Show all work. Write the exact answers in simplest form in the blanks to the right.

Solve the equations.

1. $4x - 12 = -72$

2. $5(x + 2) = 3x - 2(x + 3) - 4x$

3.
$$\begin{cases} 5x + 3y = -5 \\ 5x + 2y = 5 \end{cases}$$

4.
$$\begin{cases} 12x + 20y = 16 \\ 27x + 45y = 54 \end{cases}$$

5.
$$\begin{cases} 9x - 3y = -15 \\ x + 2y = -11 \end{cases}$$

6.
$$\begin{cases} 6x + 7y = 12 \\ 4x - 14y = 28 \end{cases}$$

7. $2\sqrt{360}$

8. $\sqrt{\frac{6}{27}}$

9. $\frac{12}{\sqrt{60}}$

10. $x^2 - 12x + 20 = 0$ (use the quadratic formula)

11. $x^2 - 2x - 24 = 0$ (use factoring)

12. $30x^2 - 30 = -25x$

$$13. 24x^2 + 225 = 154x$$

$$14. 5x^2 - 8 = 172$$

$$15. 8x^2 = 32x$$

J2' {0' 4}
J4' {+2}
J3' {2\4' 32\8}
J5' {-3\5' 5\3}
J1' {-4' 8}
J0' {5' 10}
2' (34J2)\2
8' (45)\3
1' J34J0
e' (J3\4' -J2\J4)
2' (-3' -4)
4' 10 20 10 0 2
3' (2' -J0)
3' x = -3
J' x = -J2