

Honors Geometry

Algebra Review Practice Test B

Name _____ Period _____

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

Solve the equations.

1. $5x + 23 = -62$

2. $6(x - 2) + 5 = 5x - \frac{1}{2}(x + 8) + 3x$

3.
$$\begin{cases} 3x + 11y = -32 \\ 4x + y = 12 \end{cases}$$

4.
$$\begin{cases} 14x - 21y = 42 \\ 4x - 6y = 12 \end{cases}$$

5.
$$\begin{cases} 40x - 30y = -440 \\ 15x + 21y = 93 \end{cases}$$

6.
$$\begin{cases} 4x + 7y = 11 \\ 6x - 9y = 33 \end{cases}$$

7.
$$\frac{5\sqrt{384}}{2}$$

8.
$$4\sqrt{\frac{7}{14}}$$

9.
$$\frac{\sqrt{48}}{\sqrt{72}}$$

10. $2x^2 - 28x + 80 = 0$ (use the quadratic formula)

11. $x^2 - 6x - 72 = 0$ (use factoring)

12. $8x^2 + 14x = 15$

13. $60x^2 = 140x + 25$

14. $-3x^2 + 54 = -93$

15. $12x^2 = 64x$

Use mirror to see answers

J2' {0' J e\3}
J4' {+1}
J3' {-J\ e' 2\ 5}
J5' {-2\ 5' 3\ 4'
JJ' {-e' J5}
J0' {4' J0}
a' 4e\3
8' 545
1' 504e
e' (22\ J3' -JJ\ J3)
2' (-2' 8)
4' 1041046 20104102
3' (4' -4)
5' x = -5
J' x = -J1