

Name: _____

8A; Algebra 1

Date: _____

Period _____

Homework #41

Solve each Equation:

1) $x^2 - 3x + 2 = 0$

2) $m^2 + 10m + 9 = 0$

3) $x^2 - 49 = 0$

4) $3x^2 - 12 = 0$

5) $s^2 - s = 0$

6) $y^2 - 3y = 28$

7) $s^2 = -4s$

8) $y^2 = 8y + 20$

9) $30 + x = x^2$

10) $x^2 + 3x - 4 = 50$

11) $2x^2 + 7 = 5 - 5x$

12) $x(x + 3) = 40$

13) $\frac{x+4}{-1} = \frac{4}{x}$

14) $\frac{2x-2}{x+3} = \frac{x-1}{x-2}$

15) $\frac{5+y}{2y} = \frac{y-3}{y}$

16) The height h of a ball thrown into the air with an initial vertical velocity of 48 feet per second from a height of 5 feet above the ground is given by the equation: $h = -16t^2 + 48t + 5$ where t is the time in seconds that the ball has been in the air. After how many seconds is the ball at the height of 37 feet?

Hint: Plug 37 in for h and then solve