

Name: _____



Solving Quadratic Functions by Factoring

Directions: Solve each equation by factoring

1.) $x^2 - 6x + 8 = 0$

2.) $x^2 + 2x - 63 = 0$

3.) $(t + 12)(2t - 1) = 0$

4.) $(3m - 2)(3m + 5) = 0$

5.) $2x^2 + 8x = 0$

6.) $-x^2 = 9x$

7.) $x^2 = x + 6$

8.) $x^2 + 7x = -6$

9.) $2x = x^2 - 15$

10.) $3x^2 - 8x - 10 = 2x^2 - 5x$

11.) $x^2 - 7x = 0$

12.) $2x^2 - 32 = 0$

13.) $84 = x^2 + 5x$

14.) $x^2 + 15 = 5 - 7x$

ANSWER KEY

(1). $x = 4, x = 2$

(2). $x = 9, x = -7$

(3). $t = -\frac{1}{12}, t = \frac{1}{2}$

(4). $m = \frac{2}{3}, m = -\frac{5}{3}$

(5). $x = 0, x = -4$

(6). $x = 0, x = -9$

(7). $x = 3, x = -2$

(8). $x = -1, x = -6$

(9). $x = 5, x = -3$

(10). $x = 5, x = -2$

(11). $x = 0, x = 7$

(12). $x = 4, x = -4$

(13) $x = 7, x = -12$

(14) $x = -5, x = -2$