

Name: _____



Solving Quadratic Functions by Factoring

Directions: Solve each equation by factoring

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

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

3.) $x^2 + 24 = -11x$

4.) $-30 = x^2 + 11x$

5.) $x^2 + 5x + 9 = 5$

6.) $3x^2 + 10x + 21 = 2x^2$

7.) $x^2 - 6x = 10 - 3x$

8.) $225 - x^2 = 0$

9.) $2x^2 + 11x - 7 = x^2 + 5x$

10.) $14 = 50 + 15x + x^2$

11.) $x^2 + 9 = 6x + 1$

12.) $x^2 = 49$

13.) $x^2 - 9x + 18 = 0$

14.) $x^2 = -(5x + 4)$

ANSWER KEY

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

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

(3). $y = -3, y = -8$

(4). $x = -5, x = -6$

(5). $a = -1, a = -4$

(6). $m = -3, m = -7$

(7). $A = -2, A = 5$

(8). $x = 15, x = -15$

(9). $t = -7, t = 1$

(10). $x = -3, x = -12$

(11). $y = 4, y = 2$

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

(13) $x = 3, x = 6$

(14) $x = -1, x = -4$