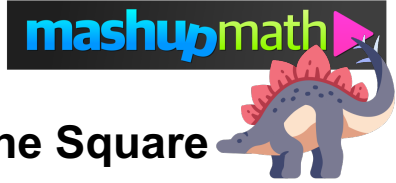


Name: _____



Solving Quadratic Functions by Completing the Square

Directions: Solve each equation by completing the square

(1). $p^2 + 8p = 20$

(2). $n^2 = 4n + 21$

(3). $m^2 = 40 - 6m$

(4). $n^2 - 16 = 12n + 12$

(5). $-2p^2 + 8p + 12 = -3p^2$

(6). $y^2 + 18 + 3y = 14y$

(7). $a^2 + 14a = -49$

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

(9). $k^2 + 3k = 28$

(10). $5p + p^2 = 24$

(11). $10 - 3x = x^2$

(12). $12 = p + p^2$

ANSWER KEY

(1). $p = 2, p = -10$

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

(3). $m = 1, m = -7$

(4). $n = 14, n = -2$

(5). $p = -2, p = -6$

(6). $y = 9, y = 2$

(7). $a = -7, a = -7$

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

(9). $k = 4, k = -7$

(10). $p = 3, p = -8$

(11). $x = 3, x = -8$

(12). $p = 3, p = -4$