

Solving Mixed Algebraic Equations

Name: _____ Score: _____

Solve for each variable.

$$x + 20 = 40$$

$$2c + 3 = 63$$

$$2v^2 + 10 = 18$$

$$2d^2 + 10 = 18$$

$$t^2 + 21 = 30$$

$$n - 10 = 0$$

$$m - 15 = 5$$

$$4x^1 + 5 = 29$$

$$-5b = 10$$

$$4f + 10f = 280$$

$$q^2 - 14 = -10$$

$$g - 30 = 20$$

$$3e - 5 = 10$$

$$y^2(5 - 2) = 27$$

$$-q + 16 = 6$$

$$4r^1 + 20 = 40$$

$$-2d + 10 = -10$$

$$2k = -12$$

$$2p^2(2 + 9) = 198$$

$$x - 10 = 20$$

$$20 - 2y = 8$$

Answers

Solve for each variable.

$$x + 20 = 40$$

$$x = 20$$

$$2c + 3 = 63$$

$$c = 30$$

$$2v^2 + 10 = 18$$

$$v = 2$$

$$2d^2 + 10 = 18$$

$$d = 2$$

$$t^2 + 21 = 30$$

$$t = 3$$

$$n - 10 = 0$$

$$n = 10$$

$$m - 15 = 5$$

$$m = 20$$

$$4x^1 + 5 = 29$$

$$x = 6$$

$$-5b = 10$$

$$b = -2$$

$$4f + 10f = 280$$

$$f = 20$$

$$q^2 - 14 = -10$$

$$q = 2$$

$$g - 30 = 20$$

$$g = 50$$

$$3e - 5 = 10$$

$$e = 5$$

$$y^2(5 - 2) = 27$$

$$y = 3$$

$$-q + 16 = 6$$

$$q = 10$$

$$4r^1 + 20 = 40$$

$$r = 5$$

$$-2d + 10 = -10$$

$$d = 10$$

$$2k = -12$$

$$k = -6$$

$$2p^2(2 + 9) = 198$$

$$p = 3$$

$$x - 10 = 20$$

$$x = 30$$

$$20 - 2y = 8$$

$$y = 6$$