

1. solve the following equations

(a) $(a - 3)^2 = 16$

(b) $(3x - 2)^2 - 4 = 0$

(c) $(2y + 1)^2 - 16 = 0$

(d) $(5x + 2)^2 = 25$

(e) $(x - 5)^2 - 36 = 0$

(f) $(a + 2)^2 = 9$

2. solve the following equations

(a) $(3x + 4)^2 - 81 = 0$

(b) $(2x - 5)^2 = 4$

(c) $(2x - 1)^2 = 25$

(d) $(2y + 3)^2 - 49 = 0$

(e) $(2x + 5)^2 = 9$

(f) $64 = (3y - 3)^2$

3. solve and answer to 1 d.p.

(a) $x^2 - 5x + 1 = 0$

(b) $x^2 + 9x + 1 = 0$

(c) $x^2 - 4x + 2 = 0$

(d) $x^2 - 4x - 4 = 0$

(e) $x^2 + 2x - 2 = 0$

(f) $x^2 - 3x - 4 = 0$

1.

(a) $a = 7, a = -1$

(b) $x = 1\frac{1}{3}, x = 0$

(c) $y = 1\frac{1}{2}, y = -2\frac{1}{2}$

(d) $x = \frac{3}{5}, x = -1\frac{2}{5}$

(e) $x = 11, x = -1$

(f) $a = 1, a = -5$

2.

(a) $x = 1\frac{2}{3}, x = -4\frac{1}{3}$

(b) $x = 1\frac{1}{2}, x = 3\frac{1}{2}$

(c) $x = 3, x = -2$

(d) $y = 2, y = -5$

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

(f) $y = 3\frac{2}{3}, y = -1\frac{2}{3}$

3.

(a) $x = 4.8, x = 0.2$

(b) $x = -8.9, x = -0.1$

(c) $x = 3.4, x = 0.6$

(d) $x = -0.8, x = 4.8$

(e) $x = 0.7, x = -2.7$

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