

## Solutions

Solve

1.  $x^2 = 9$

**Solution:**  $x = +3, -3$

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

**Solution:**  $x = 4, -2$

3.  $3x^2 + 7x - 6 = 0$

**Solution:**  $x = 2/3, -3$

4.  $6x^2 = x + 2$

**Solution:**  $x = 2/3, -1/2$

5.  $4a^2 - 25 = 0$

**Solution:**  $a = 2.5, -2.5$

6.  $12y^2 - 10 = 26y$

**Solution:**  $y = 5/2, -1/3$

7.  $6a^2 - 15a = 0$

**Solution:**  $a = 0, 5/2$

8.  $3b^2 + 5b = 3$

**Solution:**  $b = 0.4684, -2.135$

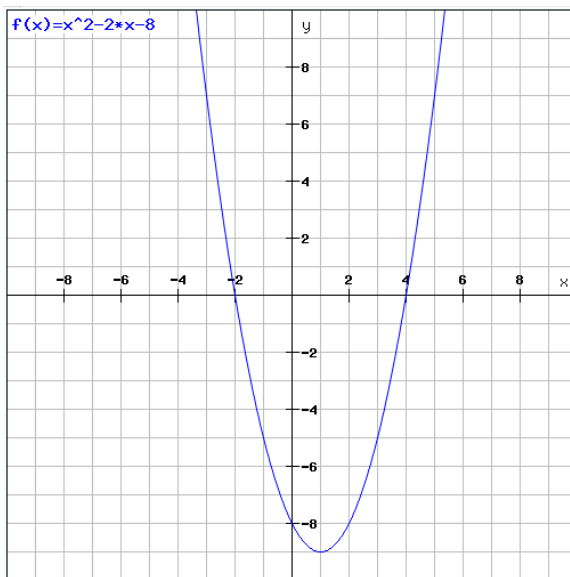
9.  $-4x^2 + 2x + 1 = 0$

**Solution:**  $x = -0.3090, 0.8090$

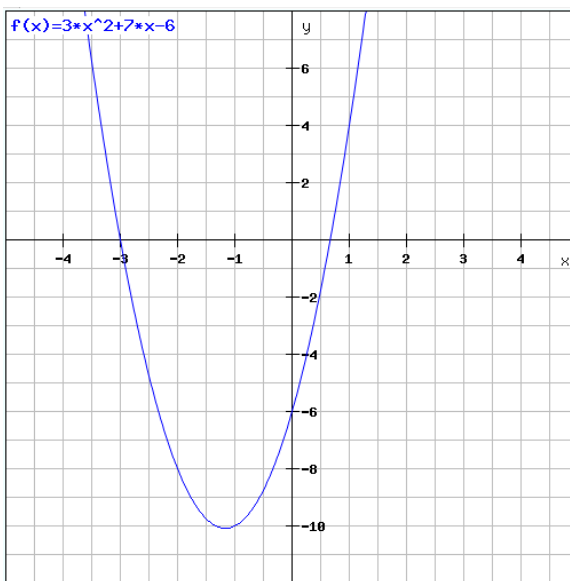
10. Sketch the curves

**Solution:**

(a)  $y = x^2 - 2x - 8$



(b)  $y = 3x^2 + 7x - 6$



(c)  $y = -4x^2 + 2x + 1$

