

# Solving Quadratic Equations (C) by Formula



If  $ax^2 + bx + c = 0$ , then  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

## Section A

Write down the values of  $a$ ,  $b$  and  $c$  in each case then solve the equation using the quadratic formula. Leave answers to 2 decimal places.

$$x^2 + 3x - 1 = 0$$

$$a = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}}$$

$$\text{Answer: } \underline{\hspace{2cm}}$$

$$6 - 3x - 2x^2 = 0$$

$$a = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}}$$

$$\text{Answer: } \underline{\hspace{2cm}}$$

$$8x^2 - 7 = 0$$

$$a = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}}$$

$$\text{Answer: } \underline{\hspace{2cm}}$$

## Section B

Solve the following equations to 2 decimal places.

$$1) 4x^2 + 9x + 1 = 0 \quad \underline{\hspace{2cm}}$$

$$6) 4 - 3x - 2x^2 = 0 \quad \underline{\hspace{2cm}}$$

$$2) x^2 - 8x + 1 = 0 \quad \underline{\hspace{2cm}}$$

$$7) 2x^2 - 2x = 7x \quad \underline{\hspace{2cm}}$$

$$3) 7x^2 + 3x - 2 = 0 \quad \underline{\hspace{2cm}}$$

$$8) x(2x + 5) = 10 \quad \underline{\hspace{2cm}}$$

$$4) 3x^2 - 4x - 5 = 0 \quad \underline{\hspace{2cm}}$$

$$9) (x - 1)^2 = 17 \quad \underline{\hspace{2cm}}$$

$$5) 5x - 1 - x^2 = 0 \quad \underline{\hspace{2cm}}$$

$$10) 2(3 - x) = (4x + 3)^2 + 6 \quad \underline{\hspace{2cm}}$$

## Extension

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

A. What happens when you try to solve the equation above using the quadratic formula?

B. How does the value of  $b^2 - 4ac$  explain your answer to part A.

C. What conditions involving  $a$ ,  $b$ , and  $c$  for  $ax^2 + bx + c = 0$  cause:

- No solutions
- Two solutions
- One solution

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