

## SOLVING QUADRATIC EQUATIONS

$$x^2 + 5x = 6$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$x^2 + 9x + 2 = 8x + 58$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$x^2 = 6x$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$5x^2 = 23x - 12$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$4x^2 + 7x = -3$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$4x^2 = 23x - 15$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$16x^2 + 8x = 3$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$8x^2 + 6x = 9$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

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

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$(2x+5)(x-2) + 7 = 0$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$(4x+3)(x+3) = 13$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$x+4 = \frac{21}{x}$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$m+3 = \frac{25}{m+3}$$

$$m = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$2x^2 - 30x - 500 = 0$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$5x = -14 - x^2$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$x+4 = \frac{21}{x}$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

$$11x^2 - 62x - 105 = 0$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$

A rectangular field is 30m longer than wide. The area of the field is 8800m<sup>2</sup>  
Work out the perimeter of the field.

$$\text{Perimeter} = \underline{\hspace{2cm}} \text{ m}$$

Victor is  $y$  years old. His brother Fred is four years old than Victor. The product of their ages is 780.

Find Victor's age

$\underline{\hspace{2cm}}$  yrs

$$5x^2 + 8y - 100 = x^2 + 4x - 37$$

$$x = \underline{\hspace{2cm}}, \underline{\hspace{2cm}}$$