$$x^2 - 4x - 12 = 0$$

1) 
$$ax^2 + bx + c$$

$$a = 1$$
  $b = -4$   $c = -12$ 

$$= (-4)^2 - 4 \times (1) \times (-12) =$$

$$= 16 + 48 = 64$$

$$\Delta = 0 = > Une solution$$

$$\sim \Delta > 0$$
:

$$x_1 = \frac{-b - \sqrt{\Delta}}{2a}$$
 et  $x_2 = \frac{-b + \sqrt{\Delta}}{2a}$ 

$$S: \Delta = 0: X_1 = -\frac{b}{2a}$$

$$\Delta = 6h$$
  $\alpha = 1$   $b = -4$   $c = -12$ 

$$x_1 = \frac{-(-4) - \sqrt{64}}{2 \times 1} = \frac{4 - 8}{2} = \frac{-4}{2} = -2$$

$$\chi_2 = \frac{-(-h) + \sqrt{6h}}{2 \times 1} = \frac{4 + 8}{2} = \frac{12}{2} = 6$$

$$S = \{ -2, 6 \}$$