

حل مسألة العدد رقم 3

$$1- 9m^2 - 18m = 0$$

$$9m(m-2) = 0$$

$$9m = 0$$

$$m = 0$$

$$m - 2 = 0$$

$$m = 2$$

$$2) x^2 + 11x + 18 = 0$$

$$(x + 9)$$

$$x + 9 = 0$$

$$x = -9$$

$$(x + 2) = 0$$

$$x + 2 = 0$$

$$x = -2$$

$$3) x^2 - 6x + 8 = 0$$

$$(x - 4)$$

$$x = 4$$

$$(x - 2) = 0$$

$$x = 2$$

$$4) x^2 - 2x - 15 = 0$$

$$(x - 5) \quad | \quad (x + 3) = 0$$

$$x - 5 = 0$$

$$\boxed{x = 5}$$

$$x + 3 = 0$$

$$\boxed{x = -3}$$

$$5) x^2 + 10x = -24$$

$$x^2 + 10x + 24 = 0$$

$$(x + 6)$$

$$x + 6 = 0$$

$$\boxed{x = -6}$$

$$(x + 4) = 0$$

$$x + 4 = 0$$

$$\boxed{x = -4}$$

$$6) a^2 - 14a + 49 = 0$$

$$(a - 7)$$

$$a - 7 = 0$$

$$\boxed{a = 7}$$

$$(a - 7) = 0$$

$$a - 7 = 0$$

$$\boxed{a = 7}$$

$$7) \quad 16t^2 - 1 = 0$$

$\pm \quad \pm$

$$\frac{16t^2}{16} = \frac{1}{16}$$

$$\sqrt{t^2} = \sqrt{\frac{1}{16}}$$

$$t = \pm \frac{1}{4}$$

$$8) \sqrt{(2x-1)^2} = \sqrt{81}$$

$$2x-1 = \pm 9$$

$$2x-1 = 9$$

$\pm x \quad \pm 1$

$$\frac{2x}{2} = \frac{10}{2}$$

$$x = 5$$

$$2x-1 = -9$$

$\pm x \quad \pm 1$

$$\frac{2x}{2} = \frac{-8}{2}$$

$$x = -4$$

$$9) \frac{4}{4} (x-2)^2 = \frac{25}{4}$$

$$\sqrt{(x-2)^2} = \sqrt{\frac{25}{4}}$$

$$x-2 = \pm \frac{5}{2}$$

$$x-2 = \frac{5}{2} + \frac{2 \times 2}{2}$$

$$x-2 = -\frac{5}{2} + \frac{2 \times 2}{2}$$

$$x = \frac{9}{2}$$

$$x = \frac{-1}{2}$$

$$10) x^2 + 4x + 4 = 0$$

$$(x+2)$$

$$(x+2) = 0$$

$$x+2=0$$

$$x+2=0$$

$$x = -2$$

$$x = -2$$