

التصحيح Le corrigé  
(06 د)

جواب التمرين الأول :

(أ)

(01.5 د)

$$\text{س } 3 \neq \text{ و س } 3 - \neq \frac{12 - \text{س} - \text{س}^2}{9 - \text{س}^2} + \frac{9 + 3\text{س} + \text{س}^2}{(9 + \text{س}^2)(3 - \text{س})} =$$

$$\text{س } 3 \neq \text{ و س } 3 - \neq \frac{12 - \text{س} - \text{س}^2}{9 - \text{س}^2} + \frac{3 + \text{س}}{(9 + \text{س}^2)(3 - \text{س})} =$$

$$1 = \frac{9 - \text{س}^2}{(9 + \text{س}^2)\text{س}}$$

$$.2 = \frac{\text{لوط} 25}{\text{لوط} 5} = (\text{لوط} 25)$$

$$(\text{أ}) \text{ لوط} 5 (2) + \text{لوط} 5 (11) = \frac{\text{لوط} 2}{\text{لوط} 5} = \frac{\text{لوط} 11}{\text{لوط} 5} = \frac{\text{لوط} 22}{\text{لوط} 5} = \text{لوط} 5 (22).$$

$$(\text{ب}) 3 - \text{لوط} (9) = \frac{\text{لوط} 9}{\text{لوط} 4} - 3$$

$$\text{لوط} \left(\frac{64}{9}\right) = \text{لوط} (64) - \text{لوط} (9)$$

$$\text{لوط} \left(\frac{34}{4}\right) - \text{لوط} (9) =$$

$$\underline{\underline{\text{لوط} (9) - 3}}$$

$$(\text{ت}) \text{ح} + 1 - \text{ح} = 3\text{ط} + 3 - 2$$

$$.3 =$$

$$\text{ح} = 0 - 2.$$

جواب التمرين الثاني :

$$(1) \text{ف}(\text{س}) = \text{أس}^3 + \text{ب} \text{س}^2 + \text{ت}.$$

$$\left. \begin{array}{l} 5 = \text{ت} \\ 2 = \text{أ} \\ \text{ب} = 3 - \end{array} \right\} \Leftrightarrow \left. \begin{array}{l} 0 = \text{ت} + \text{ب} + \text{أ} \\ 5 = \text{ت} \\ 0 = \text{ب} + 2\text{أ} + 3 \end{array} \right\} \Leftrightarrow \left. \begin{array}{l} 0 = \text{ف}(-1) \\ 5 = \text{ف}(0) \\ 0 = \text{ف}'(1) \end{array} \right\}$$

(2)

$$(\text{أ}) \text{ف}'(\text{س}) = 6\text{س} - 3$$

$$(\text{ب}) \text{ف}''(\text{س}) = 6$$

جواب التمرين الثالث :

أ) "مدرّس رسمي سنغالي"

$$\frac{11}{25} = \frac{22}{50} = \text{أ} \quad \text{أ} \quad \text{أ}$$

ب) "مدرّس سنغالي"

$$\frac{19}{25} = \frac{38}{50} = \frac{16+22}{50} = \text{أ} \quad \text{أ} \quad \text{أ}$$

ت) "متعاقد أجنبي"

$$\frac{4}{25} = \frac{8}{50} = \text{أ} \quad \text{أ} \quad \text{أ}$$

جواب التمرين الرابع :

(1)

$$\text{أ} \quad \text{أس}^2 + 5\text{س} + 2 = 0$$

$$\text{س} = 1 \text{ و } \text{س} = \frac{2}{3} \quad \text{الحلّ } 1 = \left\{ \frac{2}{3}, 1 \right\}$$

$$\text{ب) } 0 = 2 - 4\text{س} + 2\text{س}^2$$

$$\text{س} = 1 \quad \text{س} = 1 \quad \text{الحلّ } 2 = \{ 1 \}$$

$$\text{ت) } 0 = 1 + 3\text{س}^2 + \text{س}$$

$$\Delta = 1 - 12 = -11 > 0 \quad \text{الحلّ } 3 = \{ \emptyset \}$$

$$\left. \begin{array}{l} 8 = 2\text{ص} + 6\text{س} \\ 3 = 2\text{س} + \text{ص} \end{array} \right\} \times 3 - \quad (2)$$

$$\left. \begin{array}{l} 8 = 2\text{ص} + 6\text{س} \\ 9 = 6\text{س} - 3\text{ص} \end{array} \right\}$$

$$- \text{ص} = 1$$

$$\boxed{\text{ص} = 1}$$

$$2\text{س} + \text{ص} = 3$$

$$2\text{س} = 1 - 3 = -2$$

$$\boxed{\text{س} = 1}$$

$$\boxed{\text{الحلّ : } (1 ; 1)}$$