

l) Correction :

$$F1 : x \rightarrow 5x^2 + 3x + 2$$

$$a = 5$$

$$b = 3$$

$$c = 2$$

$$\Delta = b^2 - 4ac$$

$$\Delta = 3^2 - 4 \times 5 \times 2$$

$$\Delta = 9 - 40$$

$$\Delta = -31 < 0$$

$$\text{Donc } S = \emptyset$$

$$F2 : x \rightarrow -2x^2 + 3x + 1$$

$$a = 2$$

$$b = 3$$

$$c = 1$$

$$\Delta = 3^2 - 4 \times 2 \times 1$$

$$\Delta = 9 - 8$$

$$\Delta = 1 > 0$$

Donc 2 solution

$$X_1 = \frac{-1 - \sqrt{1} \div 2 \times 2}{-2} = \frac{-1 - 1 \div 4}{-2} = \frac{-2 \div 4}{-2} = -0.5$$

$$X_2 = \frac{-1 + \sqrt{1} \div 2 \times 2}{-2} = \frac{-1 + 1 \div 4}{-2} = 0$$

$$S = \{-0.5 ; 0\}$$

$$F3 : x \rightarrow x^2 - 7x + 10$$

$$a = 1$$

$$b = -7$$

$$c = 10$$

$$\Delta = (-7)^2 - 4 \times 1 \times 10$$

$$\Delta = 49 - 40$$

$$\Delta = 9 > 0$$