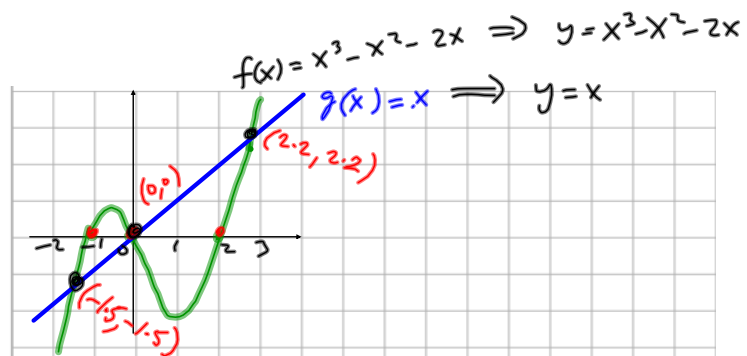


v.85 Q13



Solve :

$$f(x) = 0 \quad x = -1 \quad x = 0 \quad x = 2$$

$$f(x) = g(x)$$

$$\textcircled{1} \quad y = x$$

$$\textcircled{2} \Rightarrow x = x^3 - x^2 - 2x$$

$$x^3 - x^2 - 3x = 0$$

$$x(x^2 - x - 3) = 0 \Rightarrow x = 0$$

$$x = \frac{+1 \pm \sqrt{(-1)^2 - 4(1)(-3)}}{2(1)} = \frac{1 \pm \sqrt{13}}{2}$$

$$x = \frac{1 + \sqrt{13}}{2} \approx 2.3$$

$$x = \frac{1 - \sqrt{13}}{2} \approx -1.3$$

$$a = 1$$

$$b = -1$$

$$c = -3$$

$$\textcircled{3} \quad y = x \Rightarrow$$

$$(0, 0), (-1.3, -1.3), (2.3, 2.3)$$