

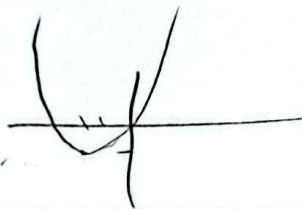
$$\sqrt{21} = (-3) - 0 \quad \left\{ \begin{array}{l} r = \frac{1}{s} = -1 \\ s = \frac{1}{r} = -5 \end{array} \right.$$

$$\frac{a}{c} \quad \frac{b}{c}$$

$$1 = \frac{x-3}{x+3}$$

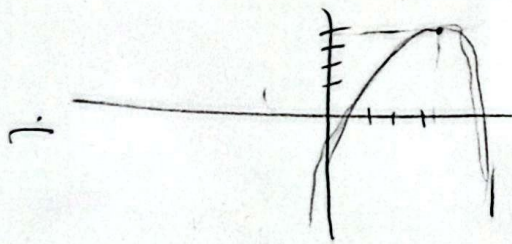
$$\int \frac{1}{\sqrt{x-3}} = \frac{1}{\sqrt{x-3}} \quad \text{--- (1)}$$

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$$1 = \frac{x-3}{x+3} \quad 0 = x-3-0$$

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$$\frac{3}{1+3} = \frac{3}{4}$$

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$$\text{الف} = x^2 - 6x + 9 = 1 \Rightarrow (x-3)(x-3) = 1 \Rightarrow (x-3)^2 = 1 \Rightarrow (x-3)^2 - 1 = 0 \Rightarrow x = 4$$

$$\text{ب} = x^2 + 10x + 12 \Rightarrow (x+2)(x+4) = 5 \Rightarrow (x+2)(x+4) - 5 = 0 \Rightarrow x = -1$$

$$\text{الف} \Rightarrow (x-2)(x-3) \Rightarrow \boxed{2, 3}$$

$$\text{ب} = (x-5)(x+2) \Rightarrow \boxed{5, -2}$$

$$\text{الف} = \frac{3 + \sqrt{9+20}}{2} \Rightarrow \frac{3 + \sqrt{29}}{2} \quad , \quad \frac{3 - \sqrt{29}}{2}$$

$$\text{ب} = \frac{4 + \sqrt{12}}{5} \quad , \quad \frac{4 - \sqrt{12}}{5}$$

$$\text{الف} = (x-1)(x-2) = \boxed{1, 2}$$

$$\text{ب} = 4x^2 + 4x - 3 = 0 \Rightarrow (x+2)(x-1) = 0 \Rightarrow x = -2, 1$$

$$\text{الف} = x^2 - 12x + 36 \Rightarrow (x-6)(x-6) \Rightarrow \frac{+1}{0} \quad , \quad \frac{+1}{0}$$

$$\text{ب} = x^2 - 10x + 21 \Rightarrow (x-3)(x-7) \Rightarrow \frac{+1}{3} \quad , \quad \frac{+1}{7}$$