

$$y = a^2 + bx + c$$

$$\frac{\Delta}{a} = V \rightarrow \frac{b^2 - 12}{-4} = V \rightarrow b^2 + 12 = 4V \rightarrow b^2 = 4V - 12$$

$$b^2 = 4V - 12 \rightarrow b = \pm \sqrt{4V - 12}$$

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الف) $a^2 + 2a + c$

$a^2 + 2a + c = 0 \rightarrow a^2 + 2a + c = 0 \rightarrow a^2 + 2a + c = 0$

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$$\alpha^r - 14\alpha + 15, \quad \alpha/\beta^r = \frac{c}{a}$$

$$\alpha/\beta^r = \frac{c}{a} \rightarrow \alpha/\beta(\beta) = \frac{c}{a} \rightarrow \beta = \frac{c}{a} \rightarrow \alpha = \frac{c}{a} \rightarrow \alpha = \frac{9}{2}$$

$$\alpha + \beta = \frac{9}{2} + \frac{c}{a} = \frac{17+14}{11} = \frac{31}{11}$$

$$\alpha + \beta = \frac{b}{a} = 11 \rightarrow \frac{31}{11} = 11 \rightarrow \frac{31}{11} = 11$$

$$2x^2 - \frac{17}{11}x + 11 = 0 \checkmark$$

1, 20

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$$2x^2 - 17x + 11 = 0$$

$$1, \beta \rightarrow \alpha, \beta \rightarrow 1, \beta$$

$$S \rightarrow \alpha = 1, \beta = \frac{b}{a}$$

$$\beta = 11 \rightarrow 11 \times 11 = 121$$

$$2x^2 - 17x + 11 = 0 \checkmark$$

1, 20

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$$2x^2 - 17x + 11 = 0 \rightarrow \alpha = 1, \beta = 11 \rightarrow \alpha = 1, \beta = 11$$

$$\alpha = \frac{1}{11}$$

$$\left(\alpha + \frac{1}{\alpha}\right)^2 = 11^2 \rightarrow \alpha + \frac{1}{\alpha} = 11 \rightarrow \alpha + \frac{1}{\alpha} = 11$$

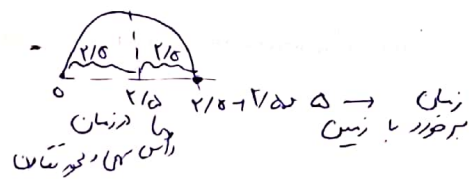
$$\alpha + \frac{1}{\alpha} = 11$$

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$$G \rightarrow \frac{1}{2} \rightarrow \frac{b}{a} = \frac{-20}{-10} = 2$$

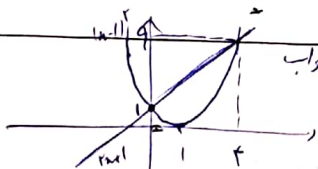
$$-10x^2 + 20x + 10 = 0 \rightarrow (-10)(x/10)^2 + 20(x/10) + 10 = 0 \rightarrow \frac{1}{10} \rightarrow \frac{1}{10}$$



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$$C(1) (2x-1)^2 = 11x+1$$

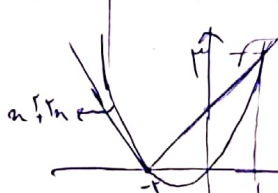
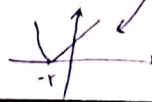


دعوا (0, 1)

(1, 1)

$$-1/2x^2 + 11x + 1$$

$$G(x) = 2x + 1$$



دعوا (1, 1)

(1, 1)

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