



$$\frac{-\Delta}{\sqrt{a}} = \frac{9-12\sqrt{a}}{\sqrt{a}} = \frac{V}{\sqrt{a}} \rightarrow 11 - 12\sqrt{a} = Va \rightarrow 12\sqrt{a} - Va = 0 \rightarrow \Delta = 5400$$

$$a = \frac{V \pm \sqrt{V^2}}{12} \rightarrow \frac{11}{12} \rightarrow \text{min sbb}$$

$$-4X \rightarrow \text{max sbb}$$

6

$$\frac{m \times \sqrt{\Delta}}{\sqrt{a}} = \frac{m}{\sqrt{a}} \rightarrow m \sqrt{\Delta} = \sqrt{a} \rightarrow m(m-2) = \sqrt{a} \rightarrow m^2 - 2m - \sqrt{a} = 0 \rightarrow m = 2\sqrt{a} - 1$$

$$\Delta = m^2 \pm 2\sqrt{a}m - \sqrt{a} = 0 \quad m = \sqrt{a} \rightarrow \sqrt{a} = \frac{-b}{\sqrt{a}} = \frac{m}{\sqrt{a}} = \frac{\sqrt{a}}{\sqrt{a}}$$

$$m = -1 \rightarrow \sqrt{a} = \frac{m}{\sqrt{a}} = \frac{-1}{\sqrt{a}}$$

7

$$\sqrt{a} = \frac{-a}{-\sqrt{a}} = \frac{1}{\sqrt{a}} \rightarrow 2b\left(\frac{1}{\sqrt{a}}\right) - b\left(\frac{1}{\sqrt{a}}\right) - 1 = -1 \rightarrow -1 = \frac{1}{\sqrt{a}}a + \frac{1}{\sqrt{a}}a \rightarrow \frac{2}{\sqrt{a}}a = -1 \rightarrow \frac{1}{\sqrt{a}}a = -\frac{1}{2} \rightarrow a = -\frac{1}{4}$$

$$y = 12x^2 - 12x + 2$$

$$\sqrt{a} = \frac{b}{\sqrt{b}} = \frac{1}{\sqrt{b}} \rightarrow 2\sqrt{b}\left(\frac{1}{\sqrt{b}}\right) - \sqrt{b}\left(\frac{1}{\sqrt{b}}\right) + 2 = \frac{1}{\sqrt{b}} - 1 = -\frac{1}{\sqrt{b}}$$

$$-\frac{1}{\sqrt{b}} = 2\sqrt{b}\left(\frac{1}{\sqrt{b}}\right) - \sqrt{b}\left(\frac{1}{\sqrt{b}}\right) - 1 \Rightarrow \frac{1}{\sqrt{b}} = -\frac{b}{\sqrt{b}} \rightarrow -b = \sqrt{b} \quad b = -1$$

$$b = -1 \rightarrow a = -\frac{1}{4} \Rightarrow \sqrt{a} = \frac{1}{2}$$

$$\frac{b}{\sqrt{b}} = \frac{b}{\sqrt{b}} = \frac{b}{\sqrt{b}}$$

8

$$B = 0 \rightarrow \alpha < 0$$

$$\bullet \delta \left| \frac{-b}{\sqrt{a}} = \frac{-1}{\sqrt{a}} > 0 \right. \rightarrow \text{اجل}$$

$$\left. \frac{-\Delta}{\sqrt{a}} = \frac{-1}{\sqrt{a}} > 0 \right. \rightarrow \text{اجل}$$

9

$$S = \frac{-b}{a} = \alpha \cdot b^{-1} \cdot 12 = \alpha + b \Rightarrow P = \frac{c}{a} = \alpha + b - 1 = ab \rightarrow a + b = ab + 1 \rightarrow \frac{a+b}{ab} = 1 + \frac{1}{ab}$$

$$\frac{(a+b)^2 - 2ab - 12 - ab + 1}{ab \cdot 1} \rightarrow a^2 + b^2 + 2ab - 2ab - 12 - ab + 1 = a^2 + b^2 - ab - 11 = 0$$

$$a^2 + b^2 - ab - 11 = (a-b)^2 - (ab+11) = 0$$

$$ab = 12 \pm 11 \rightarrow \text{اجل طبيعي}$$

$$a + b = ab + 1$$

$$a + b = 13 \Rightarrow 1 = 0$$

10