

B

الفصل ٢٠

المعادلات

$$y = (a-1)x^2 + x + 1$$

$$\frac{-b}{2a} = 1 \quad \frac{-1}{2(a-1)} = 1$$

$$2a - 1 = 1$$

(٢) - ١

$$y = -\frac{1}{2}x^2 + x + 1$$

$$\frac{-1 \pm \sqrt{1+4}}{-1}$$

(٢) ٥٥٤

$$a = \frac{1}{2}$$

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(٢) - ٢

$$y = mx^2 - 2x + m$$

$$\frac{m}{-1} = \frac{m}{-1}$$

m < 0

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

$$m(x) = \left\{ -\frac{1}{2} \right\}$$

$$\left(-\frac{1}{2}, 0 \right)$$

$$\frac{1}{-1} = \left(\frac{1}{2}, \frac{1}{2} \right)$$

$$\frac{1}{-1} = \left(\frac{1}{2}, \frac{1}{2} \right)$$

(٢) - ٣

$$\left(x + \frac{1-\sqrt{5}}{2} \right) \left(x + \frac{1+\sqrt{5}}{2} \right)$$

$$\left(\frac{1-\sqrt{5}}{2} \right) \left(\frac{1+\sqrt{5}}{2} \right) = 1 - \frac{5}{4} = -\frac{3}{4}$$

$$x^2 + \frac{1-\sqrt{5}}{2}x + \frac{1+\sqrt{5}}{2}x + \frac{1}{4} \Rightarrow x^2 + x + \frac{1}{4}$$

$$\left(1 - \frac{\sqrt{5}}{2} \right) x + \left(1 + \frac{\sqrt{5}}{2} \right) x$$

$$x^2 + x + \frac{1}{4}$$

$$x^2 - 1x + m + 1 = 0$$

$\alpha \neq \beta$

$$x^2 + \beta = 1x$$

$$B = (f-a)$$

$$B' = (f-a)$$

(٢) - ٤

$$x^2 + (f-a) = 1x$$

$$f-a = 1x + f = 0$$

$$1 \pm \sqrt{1-4f} = 1$$

$$\alpha = 1$$

$$\beta = 1$$

$$\alpha \beta = 1 \Rightarrow \frac{1}{\alpha} = 1$$

$$\frac{m+1}{1} = 1$$

$$m+1 = 1$$

$$m = 0$$

$$S = (2, 9)$$

C = a

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

$$\frac{-b}{2a} = 1$$

$$-b = 2a$$

$$b = -2a$$

$$ax^2 - 2ax + c = y$$

$$c = 1a + c = y$$

$$-2a = 1$$

$$b = -2$$

$$x^2 + 1x + c = y$$

$$x^2 = 1$$

$$x = 1$$

(٢) - ٥

