

$$2K - 3 = 4 - 3K$$

$$5K = 7$$

$$K = \frac{7}{5}$$

✓

تابع ✓ $-1 < \cos x < 1$ (ح.) (ظان فردین y تابع است (الف

$$|y| = 3 \quad \text{تابع } x$$

$$y^2 = -1 \quad \text{تابع } x \rightarrow y^2 + 0 + 0 + 1 = 0$$

$$\sqrt[3]{y} = -2 \quad \text{تابع است (الف$$

$$\sqrt[3]{y} = -1$$

$$\sqrt[3]{y} = -8$$

$$y^2 + 2y = 5x \quad \text{تابع است (ب$$

$$\sin y = y \sin x \quad \text{تابع ✓ (الف$$

$$\sqrt{\frac{x}{y}} + \sqrt{\frac{y}{x}} = 2 \quad \text{ب}$$

$$\sqrt{\frac{1}{y}} + \sqrt{\frac{y}{1}} = 2 \quad \text{تابع ✓}$$

$$12x - \frac{1}{x} = 149$$

$$\frac{12x \pm \sqrt{149}}{12} = \frac{149}{12}$$

(21)

$$9x - \frac{1}{x} = 100$$

$$\frac{9x \pm \sqrt{100}}{9} = \frac{100}{9}$$

(2)

$$15x^2 - 15x - 3 = 0$$

$$\frac{15x \pm \sqrt{900}}{15} = \frac{15}{15}$$

(2)

$$14x - \frac{1}{x} = 96$$

$$\frac{14x \pm \sqrt{96}}{14} = \frac{96}{14}$$

11

$$12x - \frac{1}{x} = 121$$

$$\frac{12x \pm \sqrt{121}}{12} = \frac{121}{12}$$

(2)

$$(x - 1)(x + 1) = 0$$

$$\left. \begin{array}{l} x = 1 \\ x = -1 \end{array} \right\}$$

(2)

(2)

$$-1, -\frac{1}{x}$$

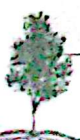
(2)

$$(x + 1)(x - 1)$$

(2)

$$9 - \frac{1}{x} = 133 \Rightarrow \frac{9x \pm \sqrt{133}}{9} = \frac{133}{9}$$

(2)



Genobar

$$\{(1,2), (1,3), (2,2), (2,3), (3,2), (3,3)\} \quad (13)$$

$$\{(2,2), (2,3), (3,2), (3,3)\} =$$

$$\{(1,2), (1,3)\} \text{ جواب}$$

$$m^2 = m + 2 \quad (14)$$

$$m^2 - m - 2 = 0 \quad (m-2)(m+1) = 0 \quad m = 2 \quad m = -1 \text{ جواب}$$

$$\therefore m = 2$$

$$a^2 = 3a - 2 \quad (15)$$

$$a^2 - 3a + 2 = 0$$

$$(a-1)(a-2) = 0 \quad a = 1 \quad a = 2 \text{ جواب}$$

$$f(x) = \begin{cases} 1-1=0 & -1 \leq x < 1 \\ a+b & 1 \leq x < 2 \\ 1 & 2 \leq x < 4 \end{cases}$$

$$\begin{pmatrix} a \\ b \end{pmatrix} \times \begin{pmatrix} 1 \\ 2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \quad (16) \text{ جواب}$$

$$1 = 2a + b \quad 0 = b$$