

Subject

الماتريشا

Day: Month: Year:

$$15a + 15 = 15x + a - 15 \quad 1 \cdot a = -15$$

مسألة 1

حلها

$$a = -15$$

مسألة 2

$$\sqrt{2-\sqrt{3}} + \frac{1}{\sqrt{2-\sqrt{3}}} + 2 + \sqrt{2+\sqrt{3}} + \frac{1}{\sqrt{2+\sqrt{3}}} + 2 =$$

$$\sqrt{2+\sqrt{3}} + \sqrt{2-\sqrt{3}} + 2 \xrightarrow{\text{نضرب في}} 2(\sqrt{2+\sqrt{3}} + \sqrt{2-\sqrt{3}})$$

$$+ 2 = 2\sqrt{4} + 2 = 2 \cdot 2 + 2 = 4 + 2 = 6$$

مسألة 3

$$(y f(x) - x f(1-x)) = (5x^2 - x) \cdot x^2$$

$$(x f(n) - y f(n)) = (5n^2 + x) \cdot x^2$$

$$-x f(n) = 2 \cdot n^2 + x \quad f(n) = \frac{2 \cdot n^2 + x}{-1}$$

مسألة 4

$$(n+2) f(n) - 2n f(n+2) = 5n^2 - mn + 2m - 1$$

$$\text{إذا } n=0 \quad 2 f(0) = 2m - 1 \rightarrow f(0) = \frac{2m-1}{2} \quad f(0) = \frac{20}{2}$$

$$\text{إذا } n=2 \quad 4 f(2) = 14 + 2m + 2m - 1 \quad f(2) = \frac{13 + 4m}{4}$$

$$f(0) = \frac{20}{2} = 10$$

$$\frac{2m-1}{2} = \frac{13+4m}{4} \quad 4m-2 = 13+4m \quad 4m=15 \quad m=\frac{15}{4}$$

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ب راسخ برینا

سوال ۹

$$\frac{f+g}{f-g} \xrightarrow{n=1} \frac{(1,3)}{(1,1)} \rightarrow (1,3)$$

ب) $\frac{f+g}{f-g} \xrightarrow{n=2} \frac{(2,4)}{(2,0)}$ جواب x
تابع مشتاق

ج) $f(0)g(-1)=0$

سوال ۱۰

$$g(m) = f(3m-1) \rightarrow \{(1,1), (5,6), (1, \frac{1}{3}), (2, -\frac{1}{3}), (1, -\frac{1}{3}), (-1, \frac{1}{3})\}$$

$$h(m) = f(|m|) \rightarrow \{(2,1), (-2,1), (0,0), (3,1), (-3,1)\}$$

۴ ها مشتاق داریم (در ۵) ۲ و ۱-
(نیست)

$$|m|=2 \quad m=\pm 2 \quad \checkmark$$

$$\checkmark \quad |m|=3 \quad m=\pm 3$$