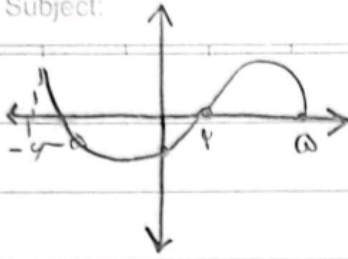


Subject:

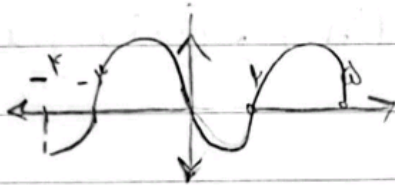
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$$g = \sqrt{x f(x)} \Rightarrow x f(x) \geq 0$$

$$[4, \infty) \cup [-\infty, 0] = Df$$

مشتق g



$$\sqrt{\frac{-x}{f(x)}} \Rightarrow \frac{-x}{f(x)} \geq 0$$

بالنسبة لـ g،
مختلف التكرار

$$Df = [0, 4] \cup [-4, 0]$$

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

$$-f(x) = x \Rightarrow f(x) = -x$$

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

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

$$f(-x) = 1$$

$$\begin{cases} x - \sqrt{x^2 + 4} & x > 4 \\ x^2 + 4 & x \leq 4 \end{cases}$$

$$f(f(4)) + f(f(1)) = 4 + 9 = 13$$

$$f(0) - f(1) = 1 \Rightarrow f(1) = -4$$

$$f(0) = 2 \quad f(1) = a - b + 2$$

$$a - b + 2 = -4 \Rightarrow a - b = -6$$

$$f(x) = x^2 - 3x + 1$$

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

$$f(x)$$

s.a.m

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الناسخ

$$f(x) = \begin{cases} 3x+1 & x \geq 2 \\ x^2 & x < 2 \end{cases} \quad \frac{3f(4) - 2f(-2)}{f(2)} = \frac{31}{1} = 31$$

$$F = \{(2,9), (3,4), (4,1), (1,9)\}$$

$$\frac{f(f(4)) - f(f(3))}{f(1) - 2} = \frac{9 - 4}{9 - 4} = \frac{5}{5} = 1$$

$$\frac{(\sqrt{3}-2)^2 + f(\sqrt{3}-2) + 9}{(\sqrt{3}-2)^2 + f(\sqrt{3}-2) + 4} = \frac{(3+4-4\sqrt{3}) + (4\sqrt{3}-8) + 9}{(3+4-4\sqrt{3}) + (4\sqrt{3}-8) + 4} = \frac{11}{14}$$

$$\left(\sqrt{x} + \frac{1}{\sqrt{x}}\right)^2 - \left(x^2 + \frac{1}{x^2}\right) = \left(x + \frac{1}{x}\right)^2 - \left(x^2 + \frac{1}{x^2}\right) = 2 \neq 2$$