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

$$f'(x) = -2x$$

$$\frac{f(x)}{f'(x)} = \frac{-x^2 - 2}{-2x} = \frac{x^2 + 2}{2x}$$

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

$$\frac{f(x)}{f'(x)} = \frac{-1}{x} = \boxed{\frac{-1}{x}}$$

$$(f \circ g)' = g' \times f' \circ g \Rightarrow g' \times f'(x)$$

$$g\left(\frac{x}{\sqrt{x}}\right) = x$$

$$g = \frac{1}{\sqrt{x}}(x^2 - 1)^{\frac{x}{2}} \times 2x = \frac{2x}{\sqrt{x}} = 2\sqrt{x}$$

$$[x, y] = x^2$$

$$(x^2)' = 2x$$

$$f(x) = x^2 \rightarrow f'(x) = 2x$$

$$f'(x) = 2x \rightarrow f'(x) = 2x$$

$$\frac{f'(x)}{f(x)} = \frac{2x}{x^2} = \frac{2}{x}$$

$$g'(x) = f'(x+1) + 3f'(3x+10)$$

$$g'(x) = f'(-1) + 3f'(4)$$

$$f'(x) = \frac{1}{x^2}$$

$$f'(-1) = f'(4) = \frac{1}{16}$$

$$x \times \frac{1}{x} = 1$$

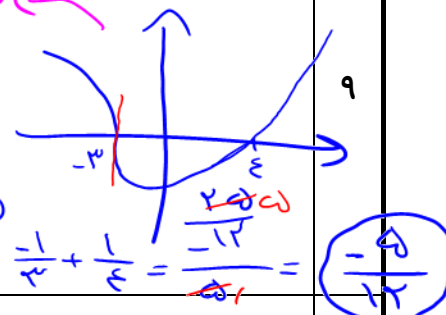
$$f(x) - 2f(x) + \frac{1}{f(x)} = 0$$

$$f(x) = \frac{1}{f(x)}$$

$$f(x) = 1$$

$$f(x) = \frac{1}{f(x)}$$

$$f(x) = 1$$



$$9y - 2x = 1$$

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

$$2x - 1 = -1 \Rightarrow x = 1$$

$$(1)^2 - f(1) = 2 \Rightarrow (1, 2)$$