



$$f(x) = \begin{cases} ax^2 + bx + 2 & \text{se } 0 \le x < 2 \\ \frac{16}{x+2} & \text{se } 2 \le x \le 6 \end{cases}$$
 [0; 6].

Trovere a, l'in mos che na applicabile TH. ROLLE

1)
$$f(0) = 2$$
 $f(6) = \frac{16}{6+2} = 2$ ok

$$\lim_{x \to 2^{-}} f(x) = \lim_{x \to 2^{-}} (ax^{2} + b + x + 2) = 4a + 2b + 2$$

$$\lim_{x \to 2} f(x) = \lim_{x \to 2+} \frac{16}{x+2} = 4$$

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$$f(x) = \begin{cases} 2a \times + lr & se & 0 < x < 2 \\ -\frac{16}{(x+2)^2} & se & 2 < x < 6 \end{cases}$$

$$f'(2) = f'(2)$$
 $f'(2) = \lim_{x \to 2^{-}} f'(x) = \lim_{x \to 2^{-}} (zax + l_{-}) = x \to 2^{-}$
 $f'(2) = \lim_{x \to 2^{-}} (zax + l_{-}) = 4a + l_{-}$ $f'(2) = -1$

