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P223 6. | 1.fix)=/nx f'(x)= x f'(1)=

$$\frac{(a)}{f'(1)} = \frac{f(1,1) - f(1)}{o_{-1}} = \frac{|n|}{o_{-1}} = \frac{|n|}{o_{-1}} = \frac{1}{o_{-1}} \frac{|n$$

$$\frac{(c)}{f(l)} = \frac{f(l, o) - f(l)}{(o)} = \frac{\ln l, ool}{|o, ool} = \frac{\log l}{\log l}$$

13.
$$f(x+3h) = f(x) + 3hf(x) + \frac{3h^2}{2}f'(x) + o(h^3)$$

$$f(x-h) = f(x) = hf(x) + \frac{h^2}{2} f'(x) + o(h^3)$$

$$\frac{|4(a)+(x)-\frac{4f(h/2)-f(h)}{4-|}= \left[\frac{4f(x+\frac{2}{2}h)+8f(x)-\frac{4}{2}}{6h}\right]}{4-|}$$

$$\frac{f(x+3h)+8f(x)-3f(x-h)}{12h}/3 = \frac{-f(x+3h)+8f(x+\frac{3}{2}h)+56f(x)-72f(x-\frac{1}{2})+8f(x+h)}{36h}$$