$$f(x) = c \Rightarrow f'(x) = 0$$

$$f(x) = q \Rightarrow f'(x) = 0$$

$$f(x) = x^{n}$$

$$f'(x) = x^{n}$$

14/10 1 = 9-6 y 1  $\frac{7!}{3!} = 3x^{2} + \frac{4}{3}x^{2} - 5x + 1$   $\frac{7!}{3!} = 3x^{2} + \frac{8}{3}x - 5$   $4 = x^{5/3} + x^{3} + \frac{1}{2}x^{2} + 4$   $y' = \frac{5}{3}x^{1/2} + \frac{3}{3}x^{2} + x$ 

 $y^{(3)}(x) = y^{(1)}$ Jan = 7 1  $\frac{dy}{dx^2} = \frac{d}{dx} \frac{dy}{dx}$  $J = x^{3} - 3x^{2} + 2$  $y' = 3x^2 - 6x$ y = 3! 22.1 = 65 7 = 0 g'' = 6x - 69(4) = 0 f(x)= an x 2+ . -1 (c) = n!an ( f (x) = 14 x 5/4 4 x 4 + x 2 - 2 36- f (x) = 5!(4) = 480) 371 f(x) = 01

$$|x|^{2} = \frac{1}{2\sqrt{2}} \qquad (\frac{1}{x})^{2} = -\frac{1}{2}$$

$$|x|^{2} = \frac{1}{2\sqrt{2}} \qquad (\sqrt{x})^{2} = -\frac{1}{2}$$

$$|x|^{2} = \frac{1}{2\sqrt{2}} \qquad (\sqrt{x})^{2} = -\frac{1}{2}$$

$$|x|^{2} = \frac{1}{2\sqrt{2}} \qquad (\sqrt{x})^{2} = -\frac{1}{2\sqrt{2}}$$

$$|x|^{2} = \frac{1}{2\sqrt{2}} \qquad (\sqrt{x})^{2} = -\frac{1}{2\sqrt{2}} \qquad (\sqrt{x})^{2} = \frac{1}{2\sqrt{2}} \qquad (\sqrt{x})^{2}$$