$$f'(x) = \frac{1}{3} x^{-2/3} + x^{-2}$$

Reats Meau -1, 3

$$x_{m+1} = x_m = \frac{\phi(x_m)}{\phi(x_m)}$$

$$6. \quad f(x) = 3x^4 - 8x^3 + 2$$

$$f'(x) = 12x^3 - 24x^2$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

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

$$= \frac{-x^2+1}{(x^2+1)^2} + \frac{1}{2}(1-x)^{-1/2}$$

Roots near 
$$-4, -2, 1$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

24 3 - 7 1 × 22 - 1.85622, x3= - 1.86236, x4= -1.86236

$$\frac{\chi_{n+1} = \chi_n - \frac{f(\chi_n)}{f(\chi_n)}}{\chi_n}$$

FICK) = 3x2-3

At wal , devivortive is o and would cross the makis

(tonsont line)