1.20 $= \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \lim_{x \to 1} \frac{(\sqrt{x+8}-3)(x+8+3)}{(x-1)(\sqrt{x+8}+3)} = \lim_{x \to 1} \frac{(x+8)-9}{(x-1)(\sqrt{x+8}+3)}$ $\lim_{X \to 1} \frac{(x-1)(5x+8+3)}{(x-1)(5x+8+3)} = \lim_{X \to 1} \frac{1}{5x+8+3} =$ 2 = 2+0 = N 6. 4. 15 (im (5x2+2x-1) = (im 15x2) + (im (2x) - (im 1 = 5 lim x2 + 2 lim x-x -> -2 x -> -2 Cim 1 = 5. (-2)2+2.(-2)-1=15 NE.4.16 $\frac{x+1}{-2x+3} = \frac{5 \cdot \lim x + \lim 1}{\lim x^3 - 2 \cdot \lim x + \lim 3} = \frac{5 \cdot 1 + 1}{\lim x^3 - 2 \cdot \lim x + \lim 3} = \frac{1}{1^3 - 2 \cdot 1 + 3} = \frac{2}{2}$ 5.1+1 6 N6 4.17 $\frac{X}{2-X} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \lim_{X \to 0} \frac{X \cdot 1}{X \cdot (X - 1)} = \lim_{X \to 0} \frac{1}{X - 1} = 0 - 1$ N6.4.18 $\lim_{t \to 3} \frac{2m-8}{2^{x}+8} = \lim_{t \to 3} \frac{\lim_{t \to 3} (2x-8)}{\lim_{t \to 3} (2^{x}+8)} = \lim_{t \to 3} \frac{\lim_{t \to 3} 2^{x}-\lim_{t \to 3} 8}{\lim_{t \to 3} (2^{x}+8)} = \frac{8-8}{1}$ N6. 4.19 $\lim_{x \to 5} \frac{x^2 - 6x + 5}{x^2 - 25} = \underbrace{Lo}_{0} = \lim_{x \to 5} \frac{(x - 5)(x - 1)}{(x + 5)(x - 5)} = \lim_{x \to 5}$ N 6.4.20

$$\lim_{x \to 0} \frac{4x^3 - 3x^2 + x}{2x} = \underbrace{\begin{bmatrix} 0 \\ 0 \end{bmatrix}} = \underbrace{\lim_{x \to 0} 2x} = \underbrace{\lim_{x \to 0} 2x$$