Manuamurechus anadug (29.04.20) No. 4.22  $\lim_{x \to 1} \frac{x^3 - x^2 - 3x - 3}{2x^2 - 2x^2 - 2x - 3} = \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \lim_{x \to 1} \frac{(x - x)(x^2 + 3)}{(x - x)(2x^2 + 3)} = \lim_{x \to 1} \frac{x^2 - 3}{2x^2 - 3} = \frac{113}{2} = \frac{9}{3}$  $\lim_{x \to \infty} \frac{x^{3} + 72 \cdot 6}{x^{3} + 6 \cdot 6^{2} \cdot 3/16} = \left[\frac{Q}{Q}\right] \cdot \lim_{x \to \infty} \frac{(x+1)(x+6)}{(x+6)(x+3)} = \lim_{x \to \infty} \frac{2 \cdot 1}{x^{2} + 3} = \frac{6 \cdot 1}{34 \cdot 5} = \frac{5}{33}$ 16.4.25 Un \$2.25 -5 = [0] = Libr (2.22/2025 +5) + cin 2012/2026) · lum (2+2)(5-12+5) = (0+2(5-23+5) = 20 = lin  $\frac{2(\alpha-2)(\alpha^2-62+4)}{(\alpha^2-2)(\alpha-4)} = \lim_{z \to 2} \frac{2(\alpha^2-62+4)}{2-62} = \lim_{z \to 2} \frac{2(\alpha^2-62+4)}{2-62+4} = \lim_{z \to 2} \frac{2(\alpha^2-2)(\alpha^2-62+4)}{2-62+4} = \lim_{z \to 2} \frac{2(\alpha^2-2)(\alpha^2-2)(\alpha^2-2)}{2-62+4} = \lim_{z \to 2} \frac{2(\alpha^2-2)(\alpha^2-2)}{2-62+4} = \lim_{z \to 2} \frac{2(\alpha^2-2)$ = 16 = 3

