(08.06.20) N.B.4.31  $\lim_{x\to\infty} \frac{2\cdot 5z^2 - 2^3}{2z^3 - 2^4 + 7z} = \left[\frac{\infty}{\infty}\right] = \lim_{x\to\infty} \frac{2(1+5z-2^4)}{\pi(2z^2 - 2+5)} =$ = 0+0-1 = - 1 NE. 4. 32 lim 1-32 = 00 = lim 2 (1-3) = = lim 1 -3 = 0-5 = -3 lim 23+2 = [00] = lim = 1 = 0+0 = q = 0
2+00 24-32+1 = [00] = 2=00 1-2+1 = 1-0+0 = q = 0 NE 4.34 lim 26-22 = [00] = lim 1-24 = 1-0 = 00
2+00 22-21 = [00] = 2+00 = 1+15-1 = 0.000 = 00 lim ( [22+4'-2) = [00-00] = lim ( [2+4'-2)( 2+2) = tim 2 +4 - 2 = tim 4 = 0 = 0

N6 4.36  $\lim_{x\to\infty} \left(\frac{2^3}{2^{\frac{1}{2}}5} - 2\right) = \left[\frac{20}{20} - 20\right] = \lim_{x\to\infty} \frac{2^3 - 2^3 + 52}{2^{\frac{1}{2}} - 5} = \lim_{x\to\infty} \frac{3^2}{2^{\frac{1}{2}} - 5} = \lim$ NE. 4.37 1) lim a = [0] = lim sing = lim d sing =2-lim stry = d 2)  $\lim_{x\to 0} \frac{\sin 6x}{\sin 5a} = \frac{0}{0} = \lim_{x\to 0} \frac{\sin 6x}{x} = \frac{\lim_{x\to 0} \frac{\sin 6x}{x}}{\lim_{x\to 0} \frac{\sin 6x}{x}} = \frac{5}{3}$ 3) fin cos a [ 0] = lin cos (y· +) - lin - sony = =- 1 con sing = - 1 4) lim arcsina = fim t = lim sint = 1.