4.3: 3.) a) lim  $-(\sqrt{n+2}-\sqrt{n})$ (1n+2'-1n') (-1n+2'+1n') - line Vn+2 + Vn n-400  $=\lim_{n\to\infty}\frac{n+2-n}{\sqrt{n+2}+\sqrt{n}}=\lim_{n\to\infty}\frac{2}{\sqrt{n+2}+\sqrt{n}}$ 1n+1n+1n b) line = lin (\n+\n) (\n+\n) (\n+\n) - \n) = lim + m + m = line /n+m + vn n-too m+m - m = n-too m TN+VN+VN V n+vn m line (VI+ 1/2) 1+1 0