$$\lim_{n\to -\infty} \frac{3n^3 + 5n + 1}{5n^3 + 2n^2 - 9}$$

2.a) 
$$y = \ln \left[ \frac{3}{2n+1} \right]$$
 $(2n-1)(n+3)$ 

$$f(-1) : 4(-1)^{3} - 6(-1)^{2} - 9(-1) = -4 - 6 + 9 = -1$$

$$f(-1|\nu) = 2 - 5$$

$$f(3|\nu) = -13 - 6$$

$$f(\nu) = -10$$