

lim f(x)=DNE

negative -s from the positive - from the

Xつ-l~

$$\frac{3\rho^{2}+|5\rho^{+}|8}{9\rho^{2}-27\rho-90} \qquad (forter and simplify)$$

$$\frac{3\rho^{2}+|5\rho^{+}|8}{9\rho^{2}-27\rho-90} \qquad (forter and simplify)$$

$$\frac{3\rho^{2}+|5\rho^{+}|8}{3\rho^{2}+|5\rho^{+}|8} \qquad (Anisible by 3)$$

$$\frac{3\rho^{2}+|5\rho^{+}|8}{3(\rho^{2}-27\rho-90)} \qquad \frac{3\rho^{2}+|5\rho^{+}|8}{3(\rho^{2}+|5\rho^{+}|8)} \qquad \frac{3\rho^{2}+|5\rho^{+}|8}{3(\rho^{2}+|5\rho^{+}|8)} \qquad \frac{3\rho^{2}+|5\rho^{+}|8}{3(\rho^{2}+|5\rho^{+}|8)} \qquad \frac{2\rho^{2}+|5\rho^{+}|8}{3(\rho^{2}+|5\rho^{+}|8)} \qquad \frac{2\rho^{2}+|5\rho^{+}|8}$$

$$\lim_{X^{2}-4X-21} \frac{X^{2}-4X-21}{X-7}$$

$$\frac{(7)^{2}-4(7)-21}{(7)-7} \quad (un^{4}-divide)$$

$$\frac{(X-7)(X+3)}{(X+3)}$$

Type 4, problem 5

$$\lim_{x\to 11} 5(x) = \int \frac{4x}{x+11} i \cdot x \times 0$$
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Verticle asymptote = -11

$$\lim \frac{\frac{4x}{x}}{x} = \lim_{x \to \infty} \frac{4}{1 + \frac{11}{x}} = \frac{4}{0}$$
if divide by 0,
$$= \infty$$