

MA 181 WORKSHEET (2.5) B

Find the following limits or state that it does not exist. Either way, explain your answer.

A. $\lim_{x \rightarrow 7} \frac{4x(x - 7)}{(x - 7)(3x + 1)}$

B. $\lim_{x \rightarrow 12} \frac{3x + 1}{x - 12}$

C. $\lim_{x \rightarrow \infty} \frac{4x(x - 7)}{(x - 7)(3x + 1)}$

D. $\lim_{x \rightarrow \infty} \frac{9x(x - 6)}{(x - 6)(7x + 1)}$

E. $\lim_{x \rightarrow 12} \frac{3x + 1}{(x - 12)^2}$

F. $\lim_{x \rightarrow \infty} \frac{3x + 1}{(x - 12)^2}$

G. $\lim_{x \rightarrow -\infty} \frac{3x^3 + 1}{(x - 12)^2}$

H. $\lim_{x \rightarrow \infty} \sqrt{\frac{9x^4 - 5x + 8}{(2x - 3)^4}}$