

Limits 3

Directions: Find each limit.

1. $\lim_{x \rightarrow -2^+} \frac{x+2}{|x+2|}$

2. $\lim_{x \rightarrow -2^-} \frac{x+2}{|x+2|}$

3. $\lim_{x \rightarrow -2} \frac{x+2}{|x+2|}$

4. $\lim_{x \rightarrow 5^+} \frac{|x-5|}{5-x}$

5. $\lim_{x \rightarrow 5^-} \frac{|x-5|}{5-x}$

6. $\lim_{x \rightarrow 5} \frac{|x-5|}{5-x}$

7. $\lim_{x \rightarrow 0} |x| \sin\left(\frac{1}{x^2}\right)$

8. $\lim_{x \rightarrow 0} x^5 \cos\left(\frac{1}{x^3}\right)$

9. $\lim_{x \rightarrow 31} \pi$

10. $\lim_{x \rightarrow -1} 90$