

Limits

Basic

Divergence

1. $\lim_{x \rightarrow 0} \left(\frac{1}{x} \right)$

2. $\lim_{x \rightarrow 5} \left(\frac{10}{x-5} \right)$

3. $\lim_{x \rightarrow 1} \left(\frac{x}{x-1} \right)$

4. $\lim_{x \rightarrow -2} \left(\frac{1}{x+2} \right)$

5. $\lim_{x \rightarrow 5} \left(\frac{x}{x^2 - 25} \right)$

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

7. $\lim_{x \rightarrow 8} \left(\frac{1}{(x-8)} \right)$

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

9. $\lim_{x \rightarrow 4} \left(\frac{1}{x-4} \right)$

10. $\lim_{x \rightarrow 0} \left(\frac{|\sin(x)|}{\sin(x)} \right)$

Answers

Limits

Basic

Divergence

1. diverges

2. diverges

3. diverges

4. diverges

5. diverges

6. diverges

7. diverges

8. diverges

9. diverges

10. diverges