

Limits 2

Directions: Find each limit.

1. $\lim_{x \rightarrow 0} \frac{x}{\sqrt[3]{x+8}-2}$

2. $\lim_{x \rightarrow 0} \frac{2x^2}{\sqrt[3]{(x+27)^2}-6\sqrt[3]{x+27}+9}$

3. $\lim_{b \rightarrow 5} \frac{b^2-25}{10+3b-b^2}$

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

5. $\lim_{n \rightarrow 2} \frac{\frac{1}{\frac{n^2+1}{5}}-\frac{1}{n-2}}{n-2}$

6. $\lim_{z \rightarrow 4} \frac{z^2-16}{\sqrt{z}-2}$

7. $\lim_{x \rightarrow 25} \frac{\sqrt{x}-5}{x-25}$

8. $\lim_{x \rightarrow 3} \frac{x^2-9}{(3x-9)(x+1)}$

9. $\lim_{x \rightarrow -1} \frac{x^3+1}{x^2+6x+5}$

10. $\lim_{x \rightarrow 5} \frac{\sqrt[3]{(x+3)^2}-2\sqrt[3]{x+3}}{\sqrt[3]{(x+3)^2}-6\sqrt[3]{x+3}+8}$