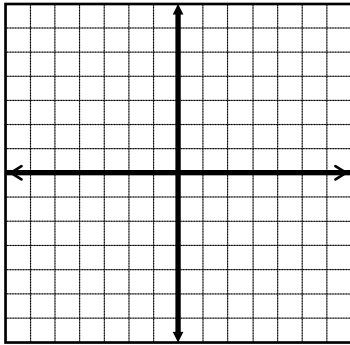
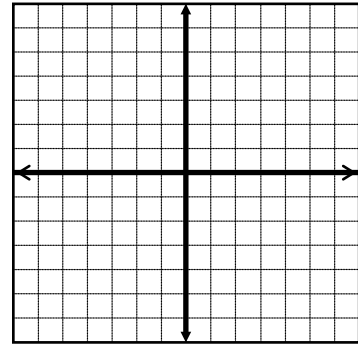


Graphing Functions: Graph the following functions and find the indicated limit.

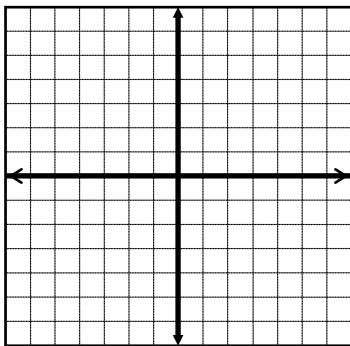
1. $f(x) = \frac{x-3}{x^2-2x-3}, \lim_{x \rightarrow 3} f(x)$



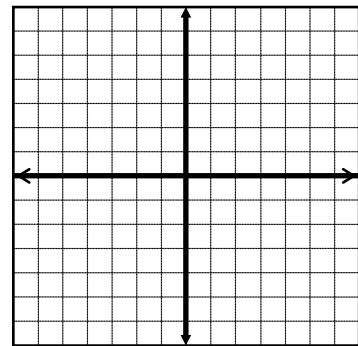
2. $f(x) = \frac{x^2-4}{x+2}, \lim_{x \rightarrow -2} f(x)$



3. $f(x) = 3^x, \lim_{x \rightarrow 2} f(x)$



4. $f(x) = \begin{cases} 3x & \text{if } x < 1 \\ x+1 & \text{if } x \geq 1 \end{cases}, \lim_{x \rightarrow 1} f(x)$



Writing Linear Equations (1.5): Write the equation of the line in slope-intercept form.

5. Passing through $(-5, -3)$ and parallel to the line whose equation is $y = -\frac{1}{2}x + 3$.

6. Passing through $(-5, -3)$ and perpendicular to the line whose equation is $y = -\frac{2}{3}x - 4$.