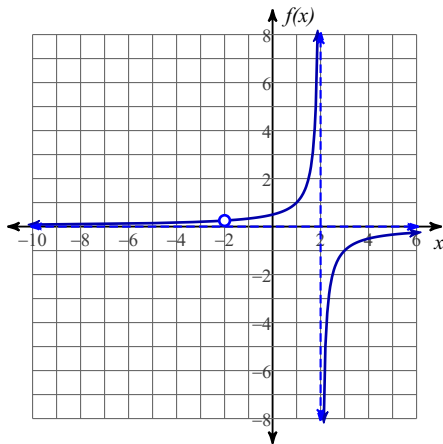


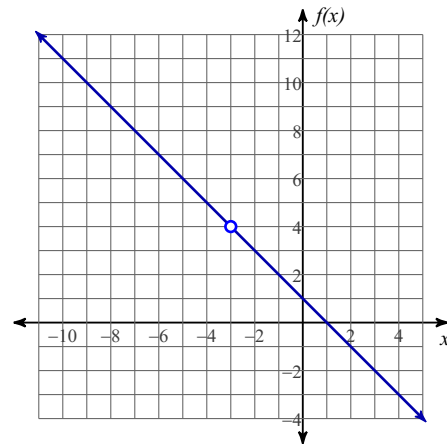
Worksheet 2 - Limits I

Evaluate each limit.

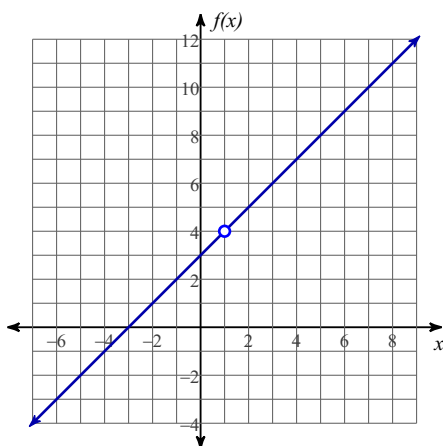
1) $\lim_{x \rightarrow -2} \frac{x+2}{x^2-4}$



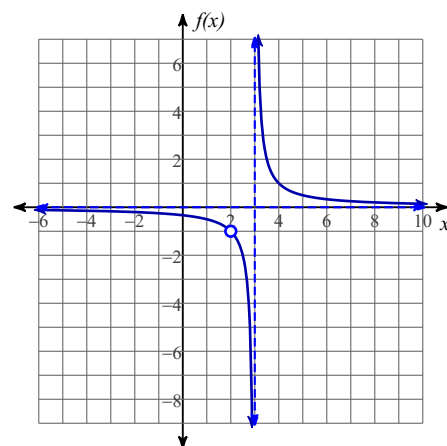
2) $\lim_{x \rightarrow -3} \frac{x^2+2x-3}{x+3}$



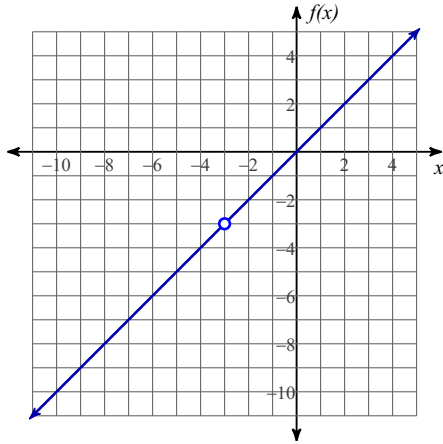
3) $\lim_{x \rightarrow 1} \frac{x^2+2x-3}{x-1}$



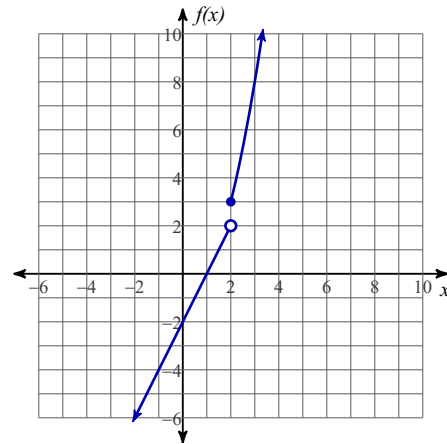
4) $\lim_{x \rightarrow 2} \frac{x-2}{x^2-5x+6}$



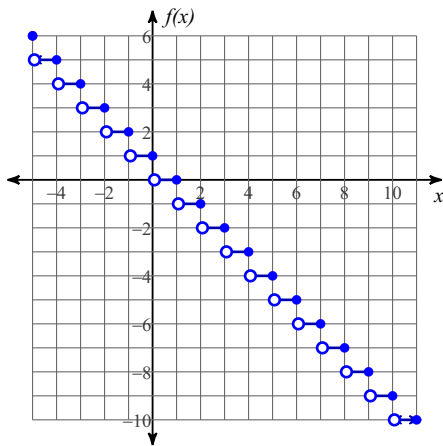
$$5) \lim_{x \rightarrow -3} \frac{x^2 + 3x}{x + 3}$$



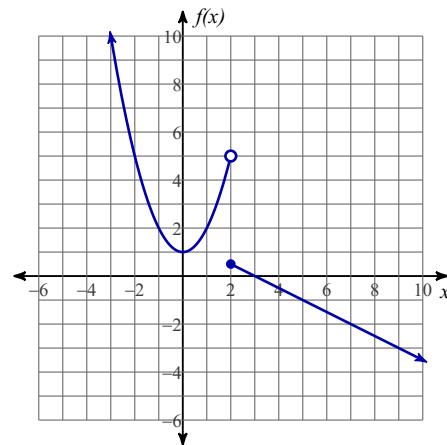
$$6) \lim_{x \rightarrow 2^+} f(x), f(x) = \begin{cases} 2x - 2, & x < 2 \\ x^2 - 1, & x \geq 2 \end{cases}$$



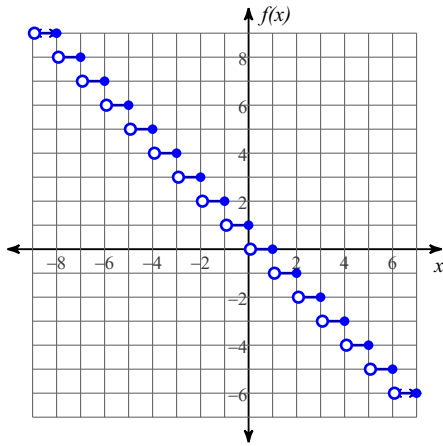
$$7) \lim_{x \rightarrow 3^-} \lfloor -x + 1 \rfloor$$



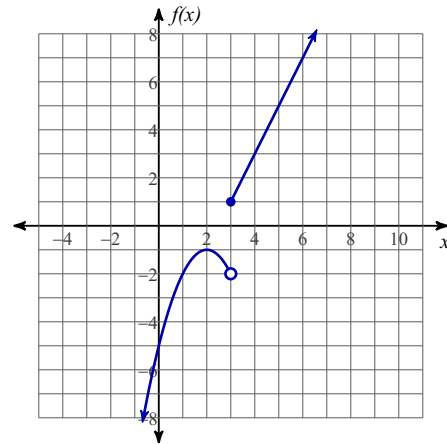
$$8) \lim_{x \rightarrow 2^-} f(x), f(x) = \begin{cases} x^2 + 1, & x < 2 \\ -\frac{x}{2} + \frac{3}{2}, & x \geq 2 \end{cases}$$



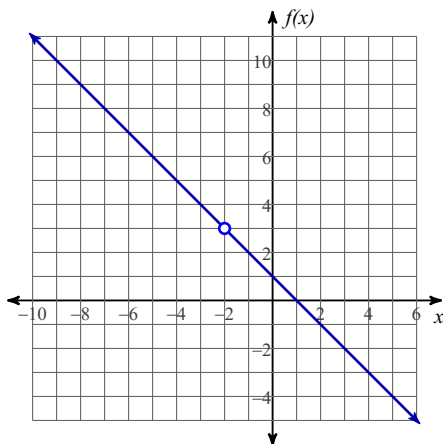
$$9) \lim_{x \rightarrow -1^-} \lfloor -x + 1 \rfloor$$



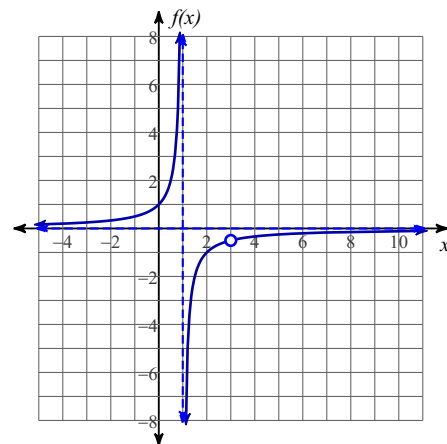
$$10) \lim_{x \rightarrow 3^-} f(x), f(x) = \begin{cases} -x^2 + 4x - 5, & x < 3 \\ 2x - 5, & x \geq 3 \end{cases}$$



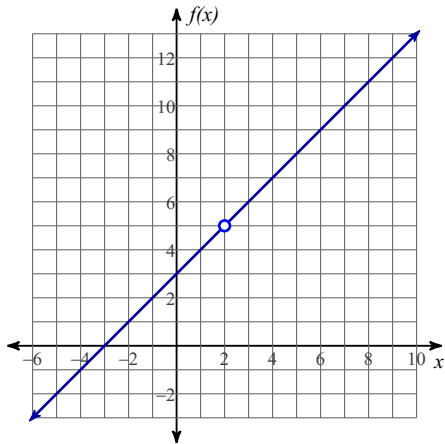
$$11) \lim_{x \rightarrow -2} \frac{x^2 + x - 2}{x + 2}$$



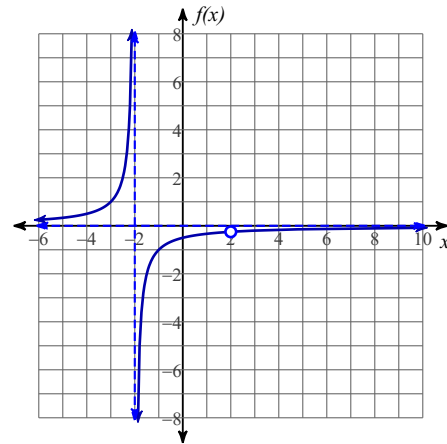
$$12) \lim_{x \rightarrow 3} \frac{x - 3}{x^2 - 4x + 3}$$



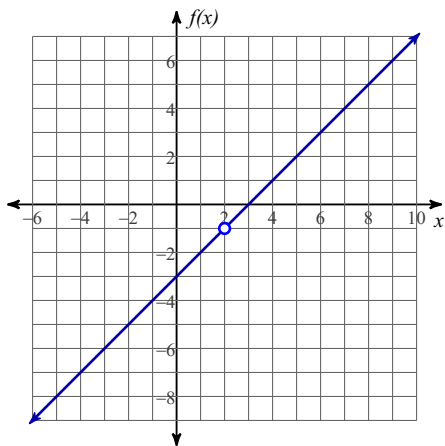
$$13) \lim_{x \rightarrow 2} \frac{x^2 + x - 6}{x - 2}$$



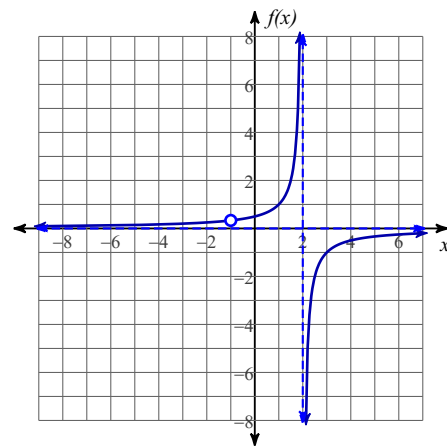
$$14) \lim_{x \rightarrow 2} -\frac{x - 2}{x^2 - 4}$$



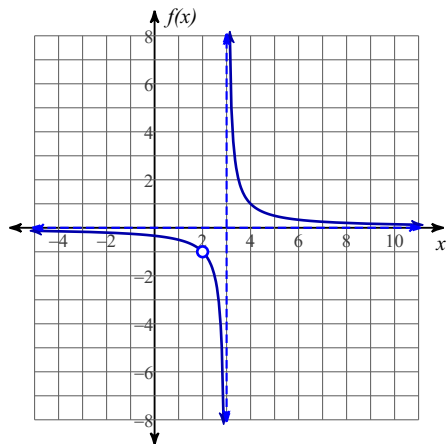
$$15) \lim_{x \rightarrow 2} \frac{x^2 - 5x + 6}{x - 2}$$



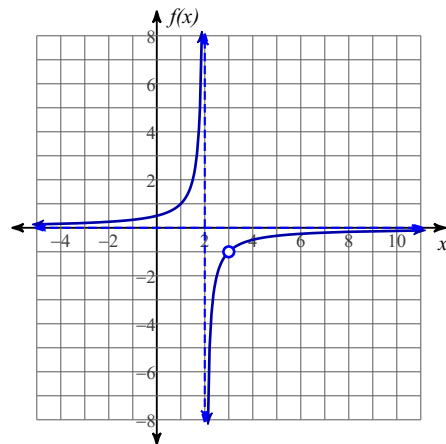
$$16) \lim_{x \rightarrow -1} -\frac{x + 1}{x^2 - x - 2}$$



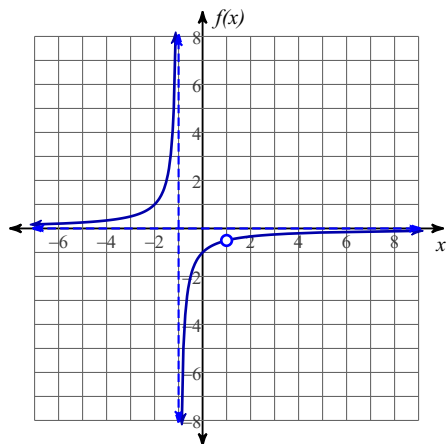
$$17) \lim_{x \rightarrow 3} \frac{x-2}{x^2-5x+6}$$



$$18) \lim_{x \rightarrow 3} -\frac{x-3}{x^2-5x+6}$$



$$19) \lim_{x \rightarrow 1} \frac{x-1}{x^2-1}$$



$$20) \lim_{x \rightarrow -3} \frac{x+1}{x^2+6x+9}$$

