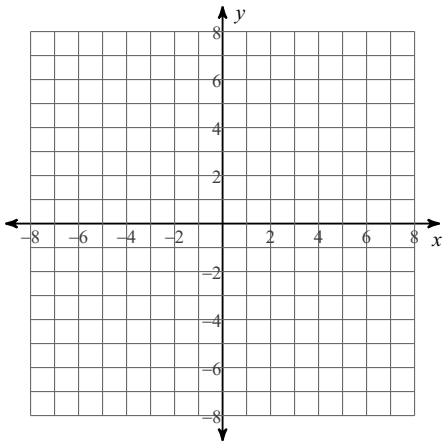
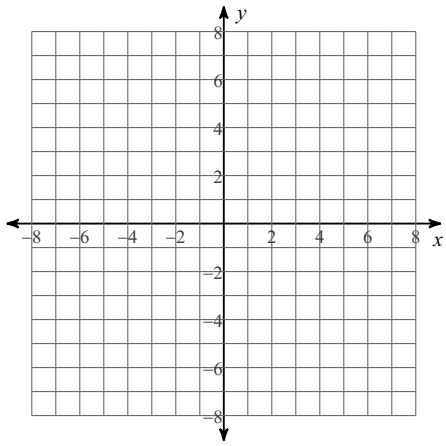
5.3 Graph Rational Functions not in Standard Form

Graph each function.

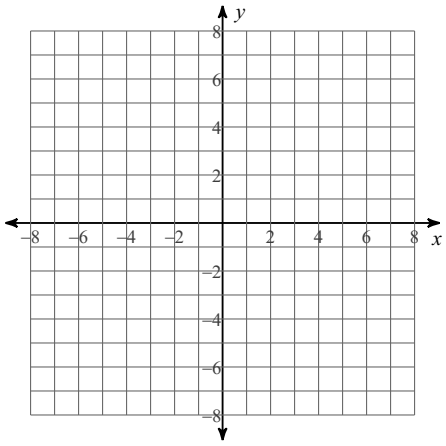
1) $f(x) = \dfrac{x+1}{2x^2+8x+6}$



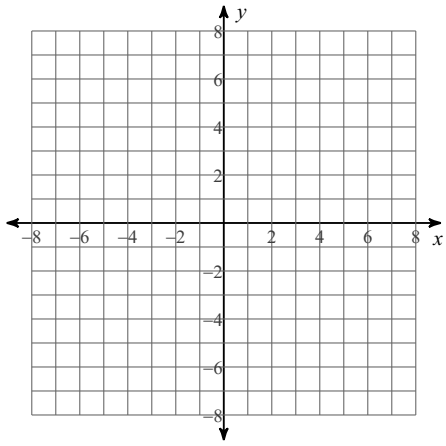
2) $f(x) = -\dfrac{2x}{x-2}$



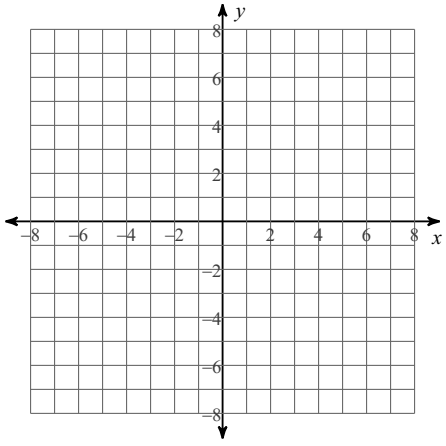
3) $f(x) = \dfrac{2x^2-8x+6}{x^2-9}$



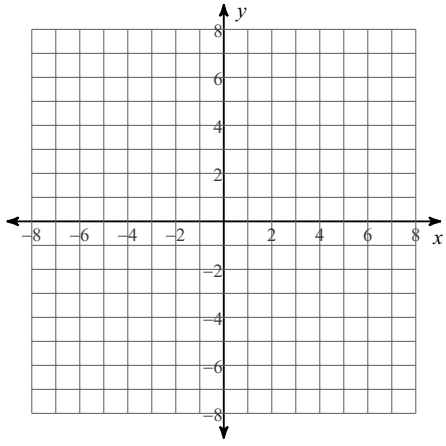
4) $f(x) = \dfrac{x^2-1}{x^2+3x-4}$



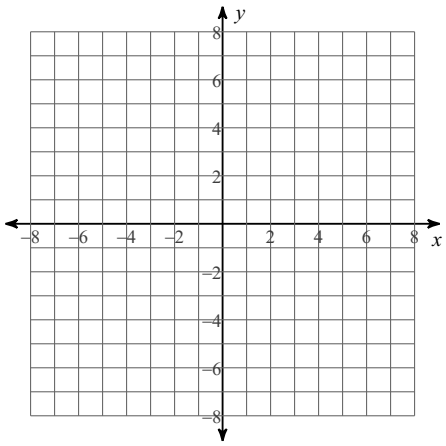
5) $f(x) = \dfrac{1}{-3x-12}$



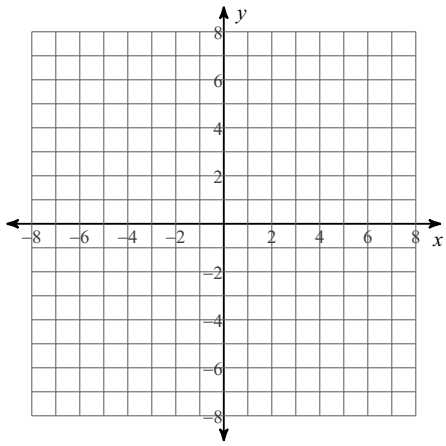
6) $f(x) = \dfrac{x^2-5x+6}{x^2-2x-3}$



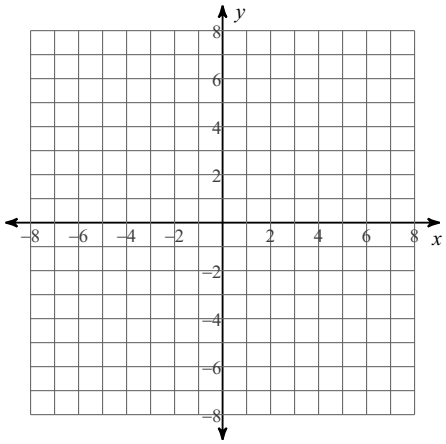
7) $f(x) = \dfrac{x-1}{-4x+8}$



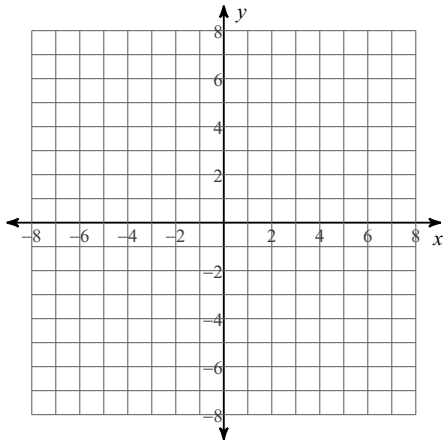
8) $f(x) = \dfrac{x+1}{2x-2}$



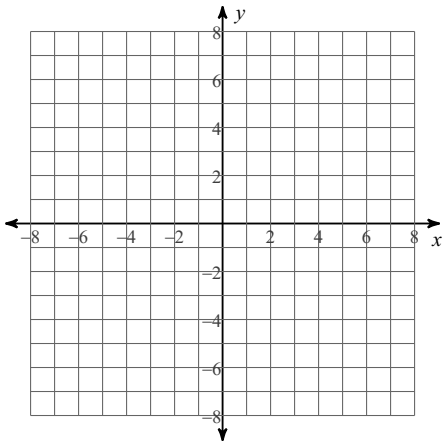
9) $f(x) = \dfrac{1}{4x+4}$



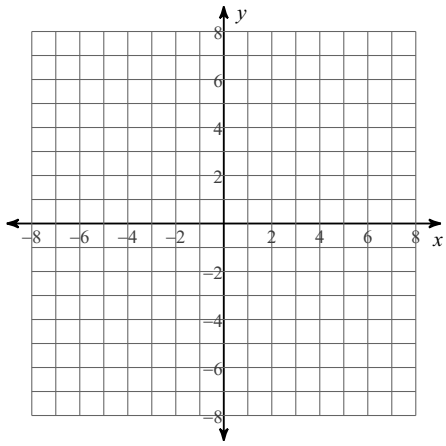
10) $f(x) = \dfrac{x^2+5x+4}{3x^2+12x}$



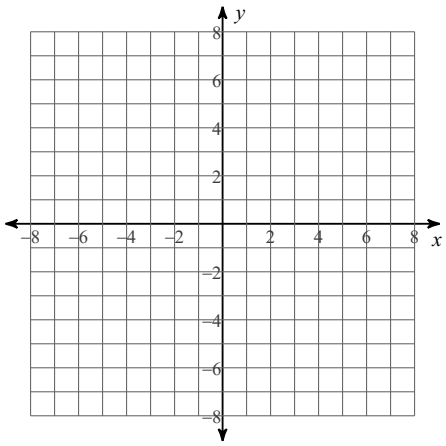
11) $f(x) = \dfrac{-3x-6}{x+1}$



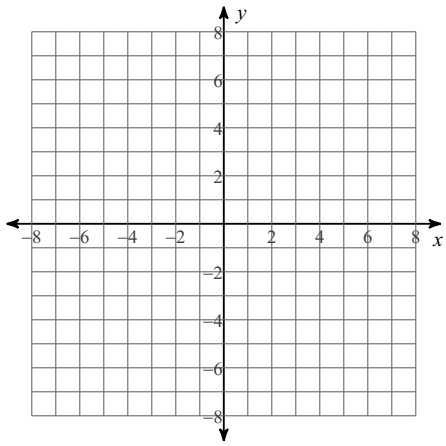
12) $f(x) = \dfrac{-4x+4}{x^2+2x-3}$



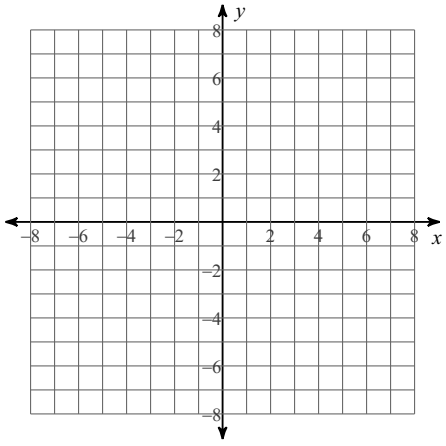
13) $f(x) = \dfrac{-x+4}{x+2}$



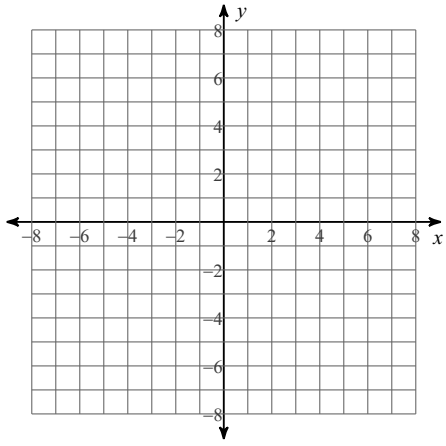
14) $f(x) = \dfrac{2}{x}$



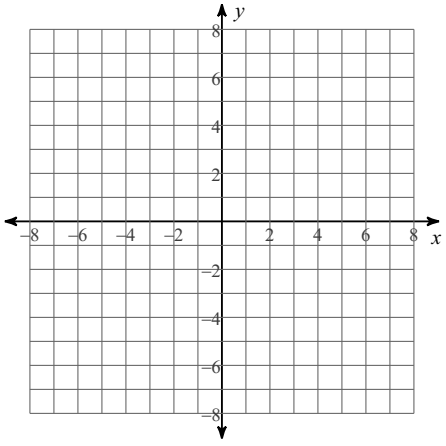
15) $f(x) = \dfrac{-x^2+x}{x^2+2x-3}$



16) $f(x) = \dfrac{x+3}{4x+16}$



17) $f(x) = \dfrac{x^2-9}{x+3}$



18) $f(x) = \dfrac{x^2-7x+6}{x-6}$