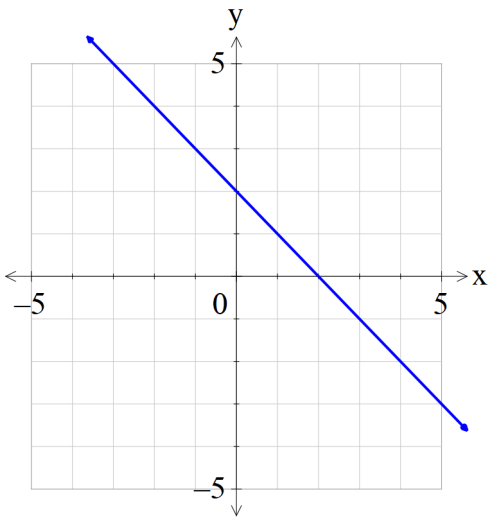
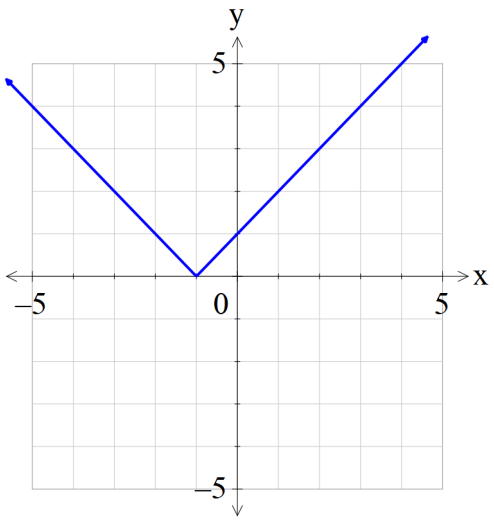
Reciprocal Functions worksheet

1. For each graph below showing $y = f(x)$, sketch a graph of the reciprocal $y = \frac{1}{f(x)}$

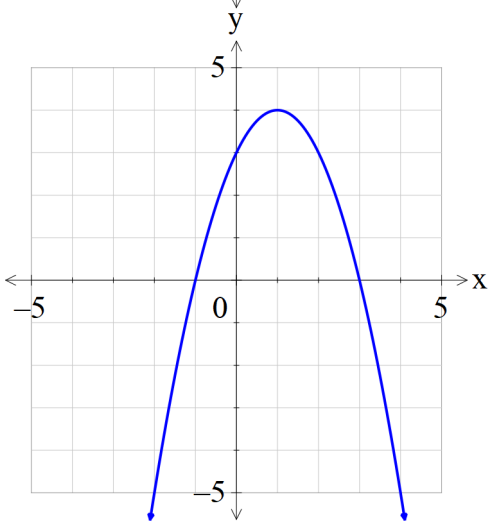
(a)



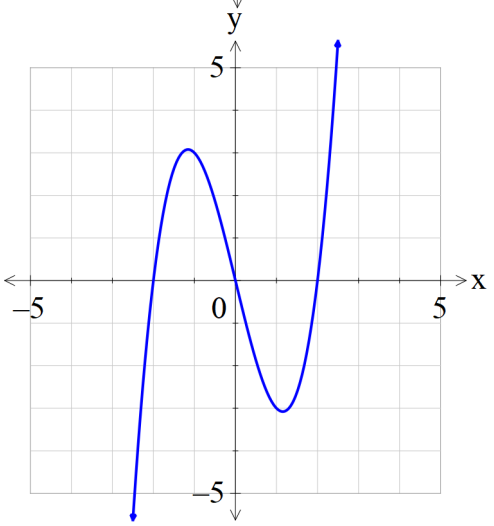
(b)



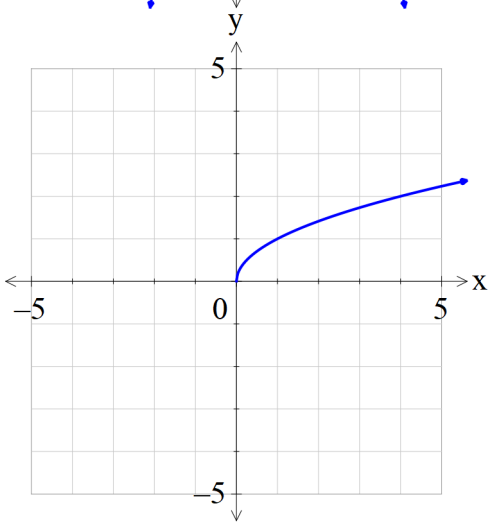
(c)



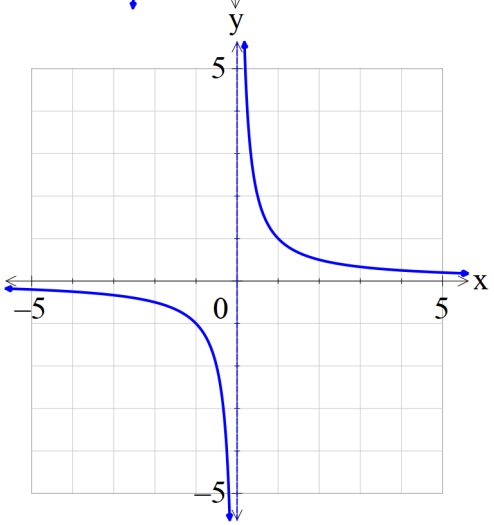
(d)



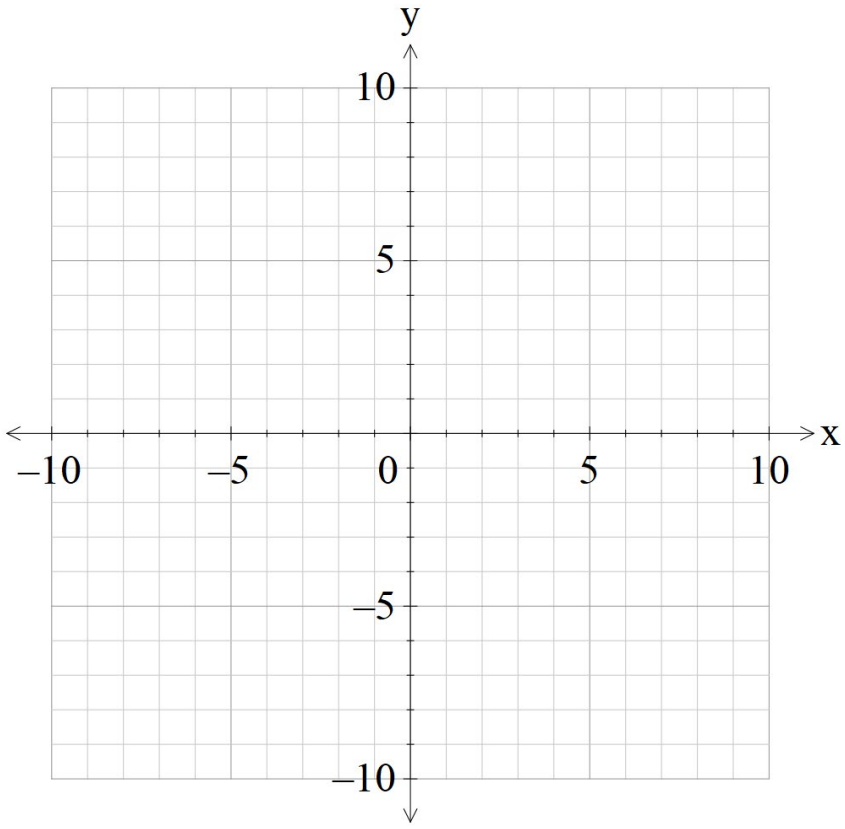
(e)



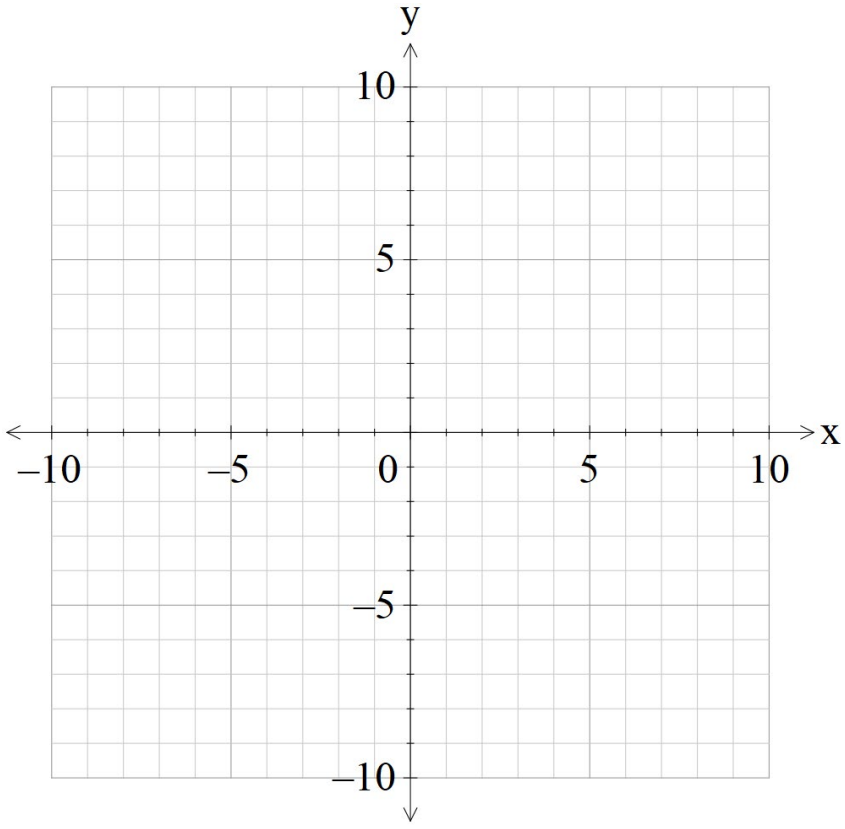
(f)

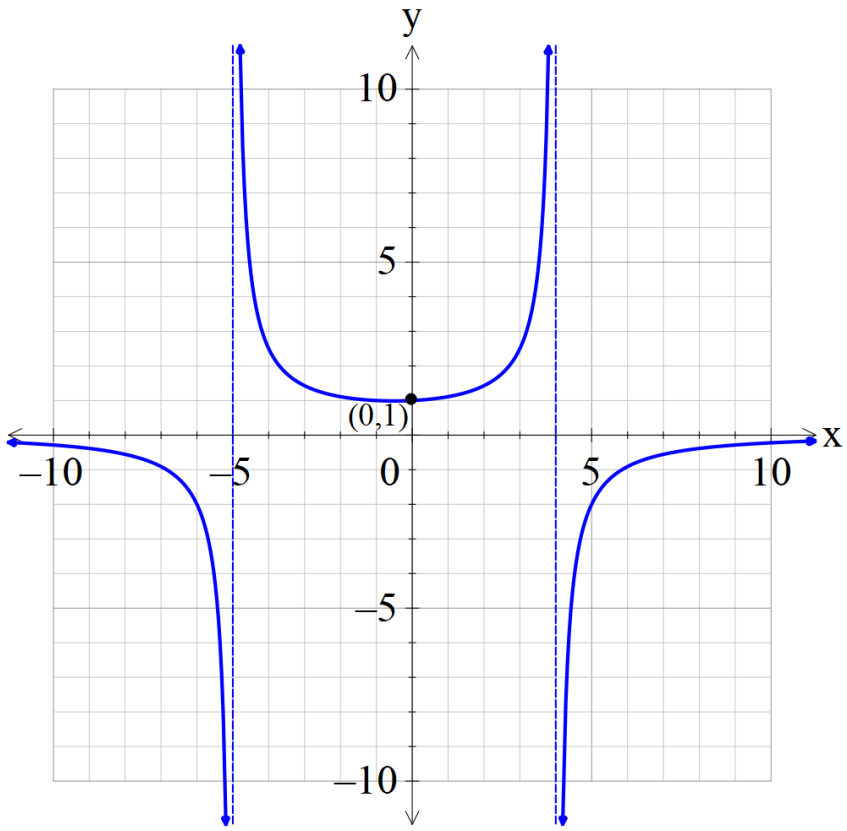


2. (a) Draw a sketch of $f(x) = \frac{x+3}{(x+4)(x-1)}$



(b) draw a sketch of $f(x) = \left|\frac{x+3}{(x+4)(x-1)}\right|$



3. Below is a sketch of $f(x) = \frac{ax+b}{x^2+cx+d}$

Determine the values of a, b, c and d