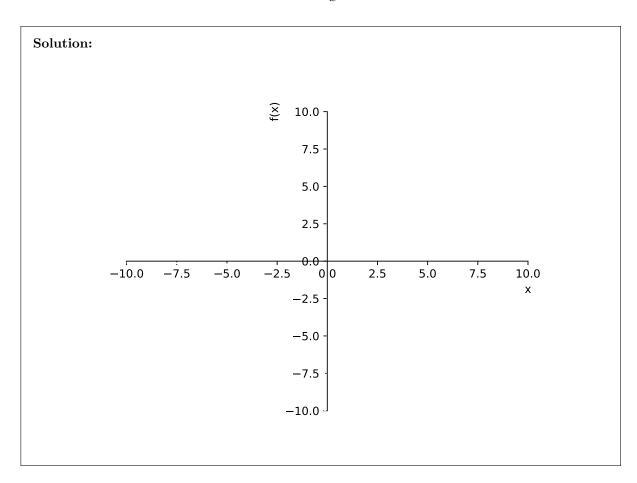
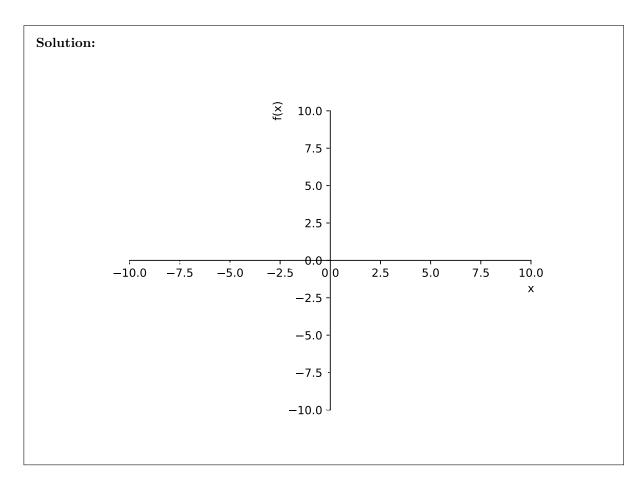
1 Graphing Functions

1.1 Questions

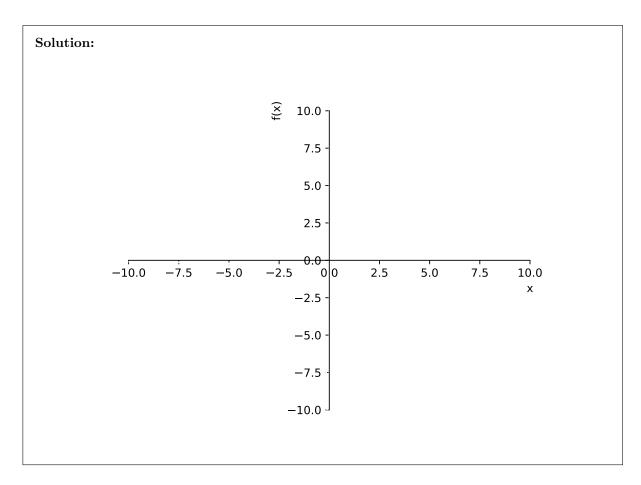
$$y = \frac{1}{x} \tag{1}$$



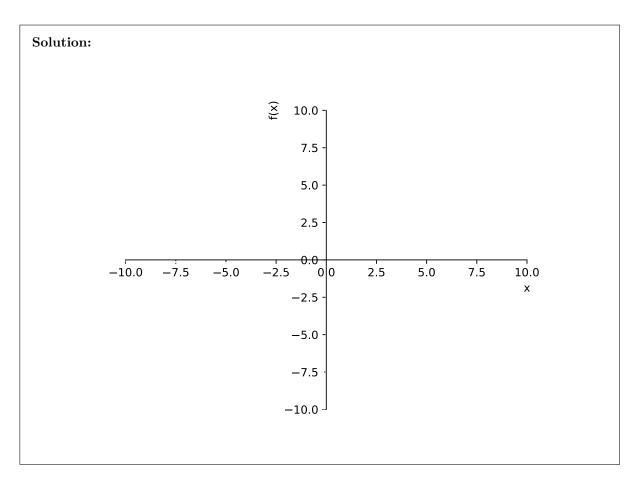
$$y = \frac{x}{\left(x - 1\right)^2} \tag{2}$$



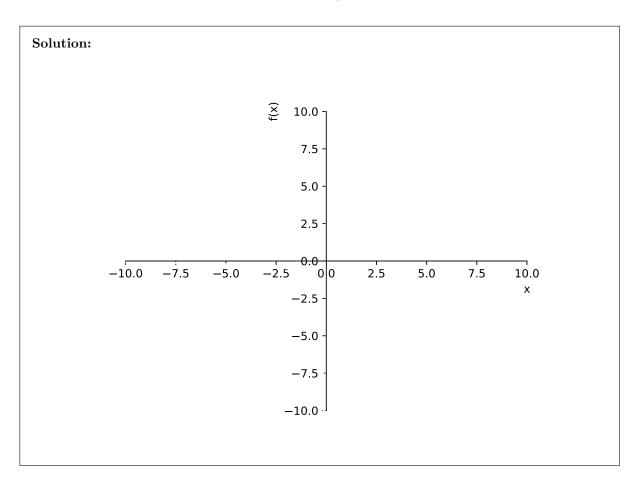
$$y = \frac{(x+1)^2}{(x-2)(x-1)}$$
 (3)



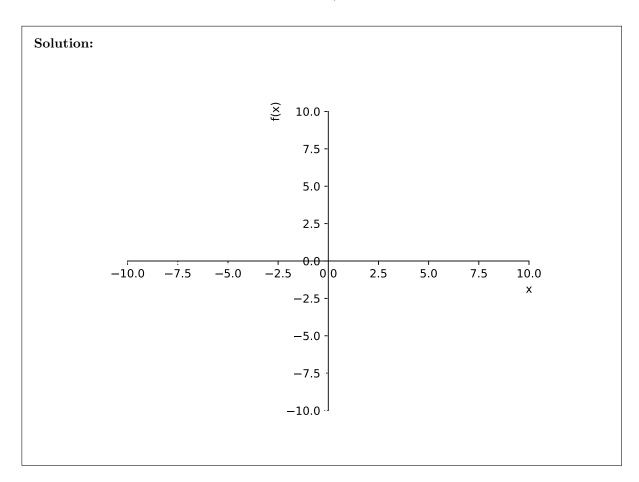
$$y = \frac{1}{x} \left(x^2 + 4 \right) \tag{4}$$



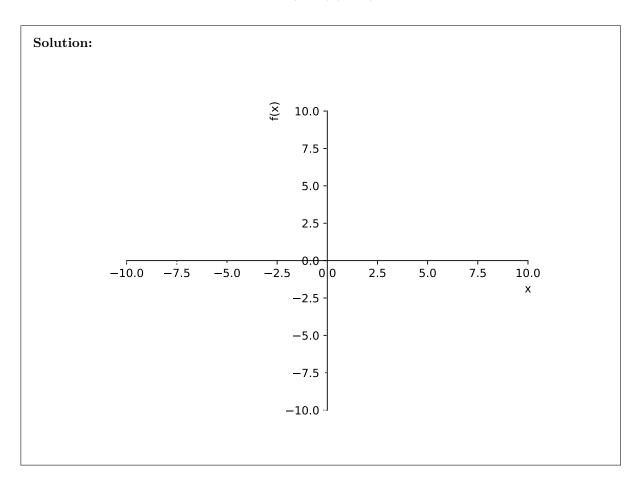
$$y = \frac{x+1}{-x+1} \tag{5}$$



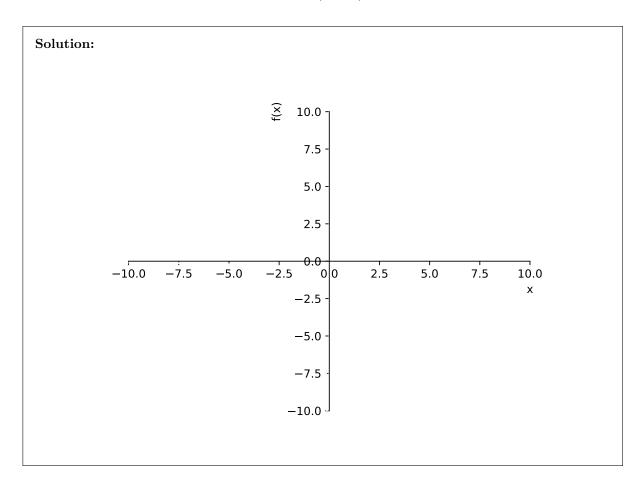
$$y = \frac{x-1}{x+1} \tag{6}$$



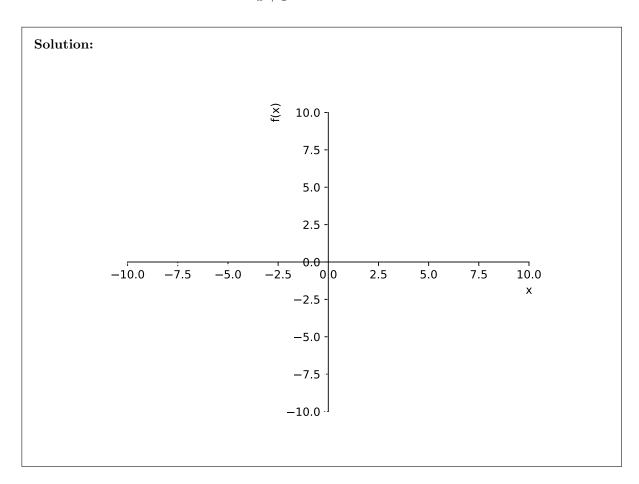
$$y = \frac{(x+1)(x+2)}{(x-2)(x-1)} \tag{7}$$



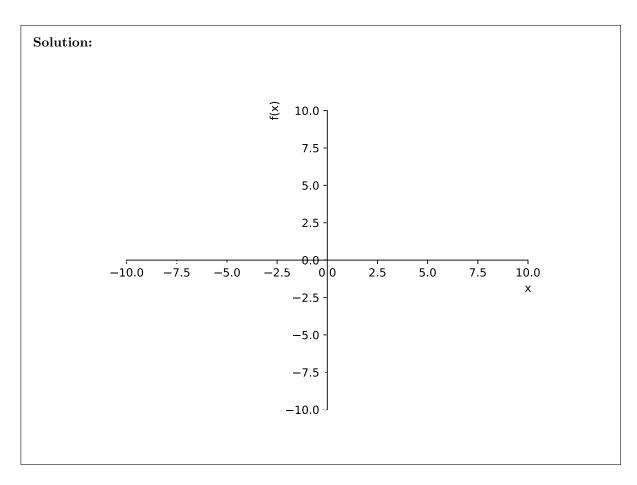
$$y = \frac{1}{x(x^2 + 1)} \tag{8}$$



$$y = \frac{1}{x+1} (x-1) (x^2 + 2x + 1)$$
(9)

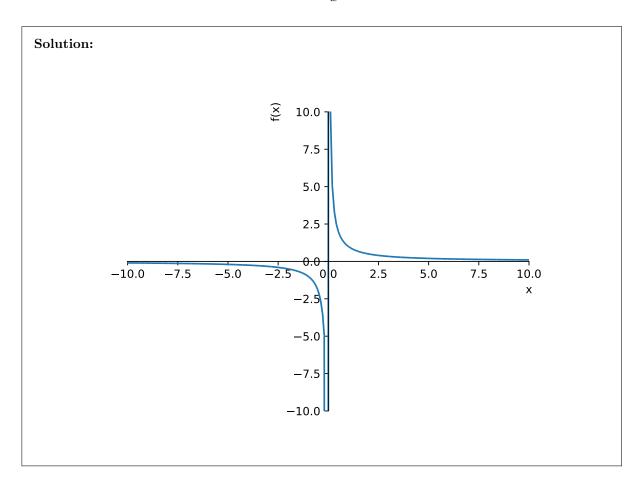


$$y = \sin\left(\frac{1}{x}\right) \tag{10}$$

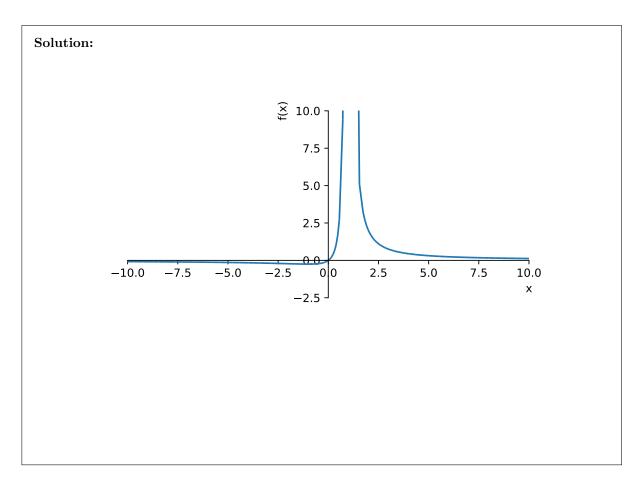


1.2 Solutions

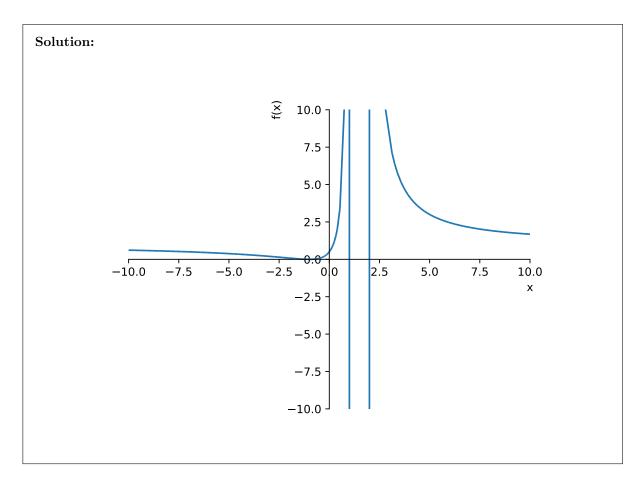
$$y = \frac{1}{x} \tag{11}$$



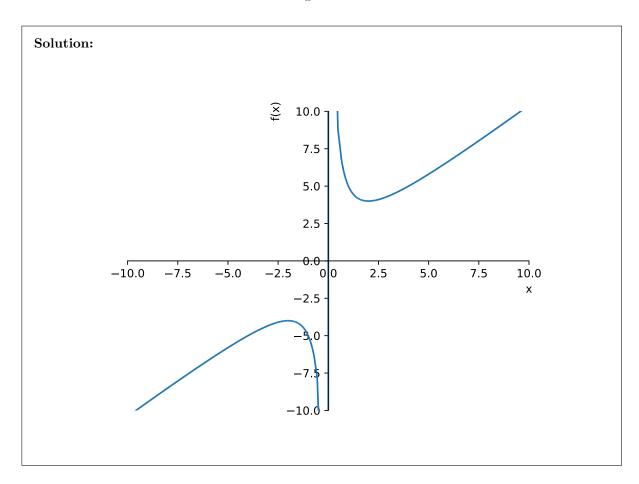
$$y = \frac{x}{\left(x-1\right)^2} \tag{12}$$



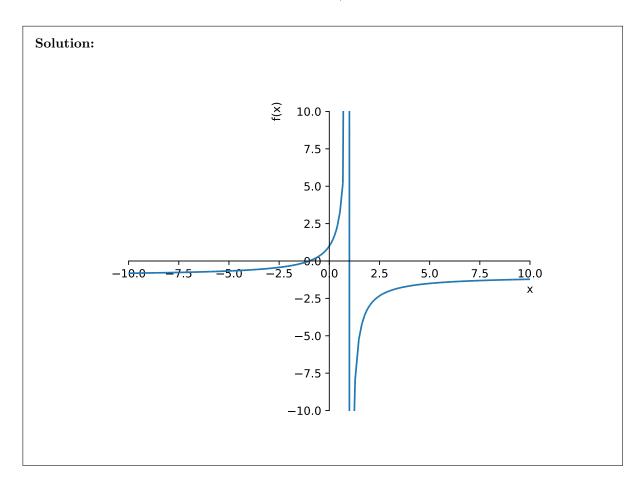
$$y = \frac{(x+1)^2}{(x-2)(x-1)}$$
 (13)



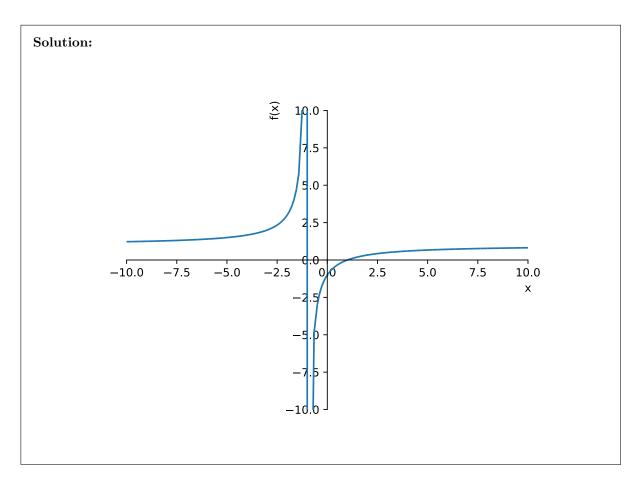
$$y = \frac{1}{x} \left(x^2 + 4 \right) \tag{14}$$



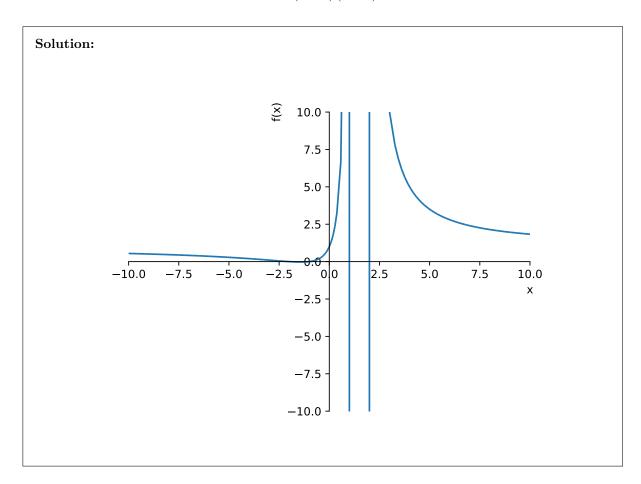
$$y = \frac{x+1}{-x+1} \tag{15}$$



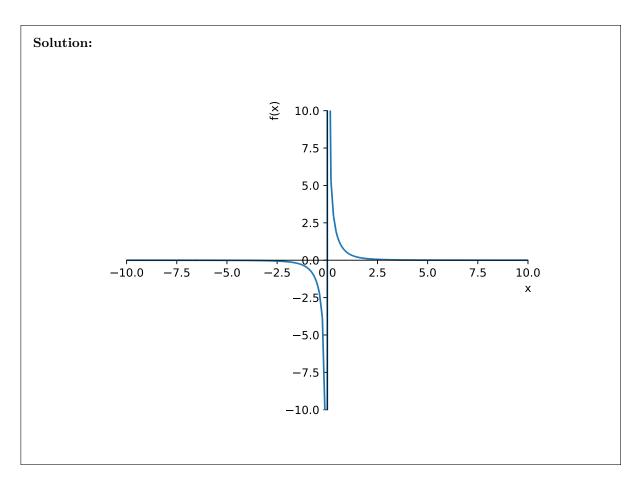
$$y = \frac{x-1}{x+1} \tag{16}$$



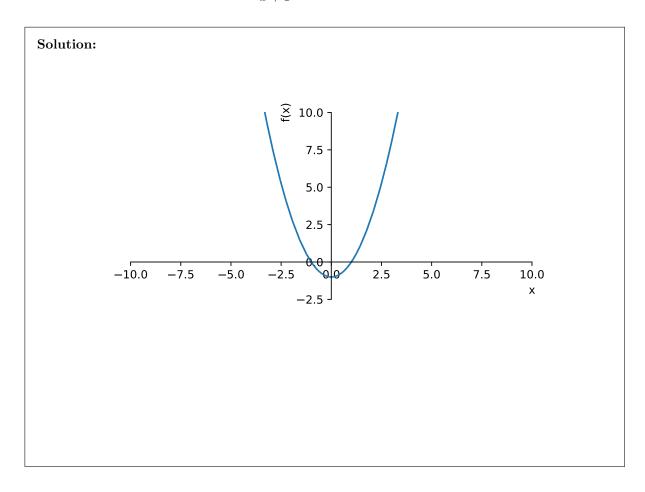
$$y = \frac{(x+1)(x+2)}{(x-2)(x-1)} \tag{17}$$



$$y = \frac{1}{x(x^2 + 1)} \tag{18}$$



$$y = \frac{1}{x+1} (x-1) (x^2 + 2x + 1)$$
(19)



$$y = \sin\left(\frac{1}{x}\right) \tag{20}$$

