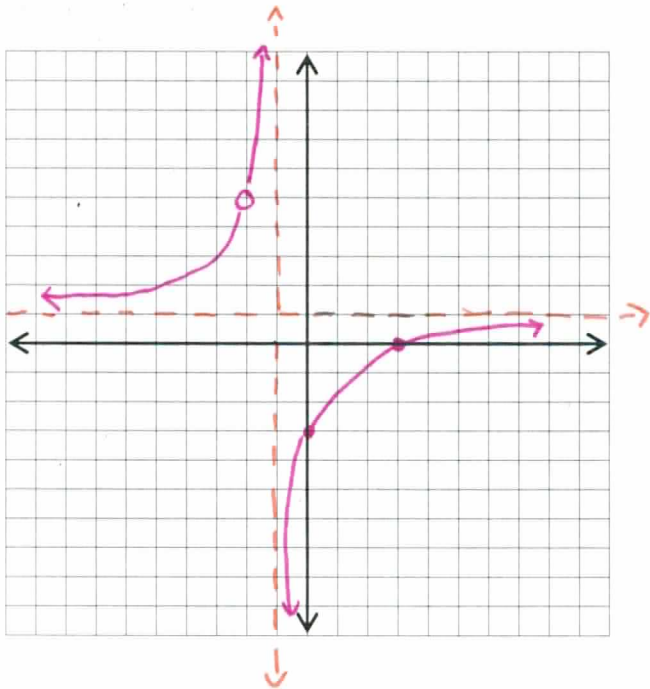


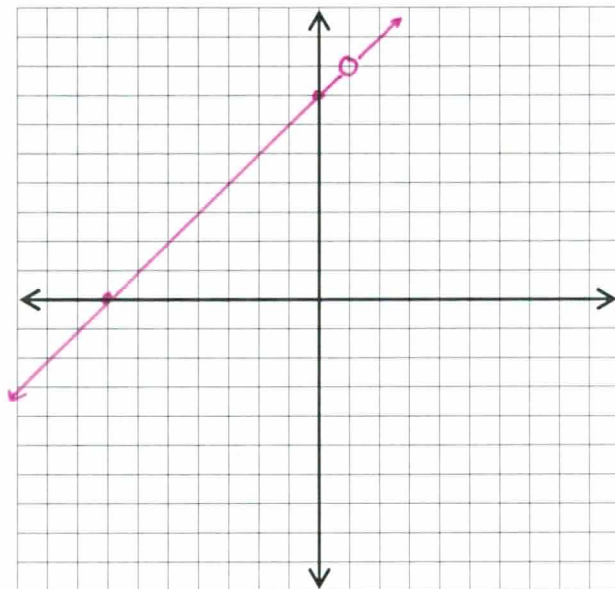
1.  $f(x) = \frac{x^2 - x - 6}{x^2 + 3x + 2} = \frac{(x-3)(x+2)}{(x+1)(x+2)} = \frac{x-3}{x+1}$

RD (-2, 5)      x int (3, 0)  
 VASY x = -1      y int (0, -3)  
 HASy y = 1



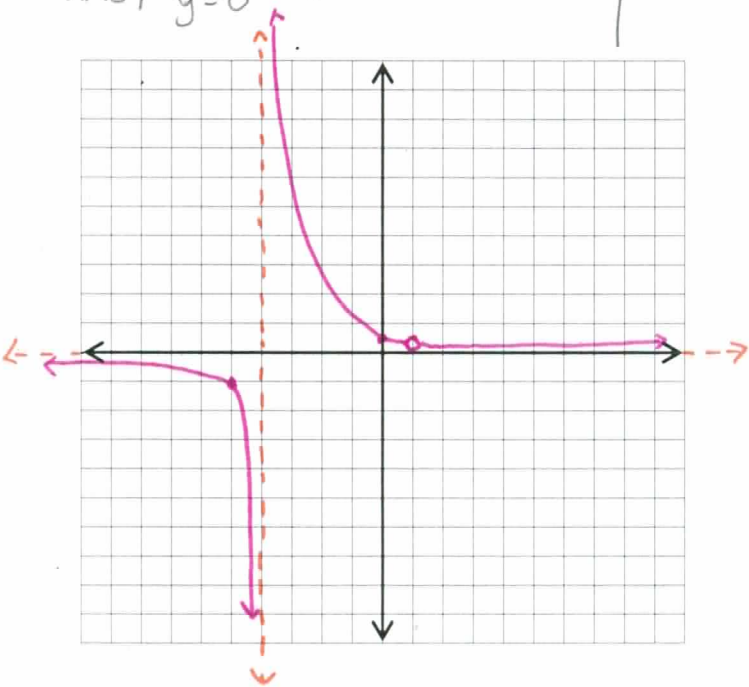
2.  $f(x) = \frac{x^2 + 6x - 7}{x - 1} = \frac{(x+7)(x-1)}{x-1} = x+7$

RD (1, 8)      x int (-7, 0)  
 VASY none      y int (0, 7)  
 HASy none



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

RD (1, 1/5)      x int none  
 VASY x = -4      y int (0, 1/4)  
 HASy y = 0



4.  $f(x) = \frac{3x}{x-2}$

RD none      x int (0, 0)  
 VASY x = 2      y int (0, 0)  
 HASy y = 3

