• Graph 
$$f(x) = \frac{(x-3)^2(x+5)}{(x+5)(x-10)}$$

Hole @ x = -5 
$$r(x) = \frac{(x-3)^2}{x-10}$$
  $r(-5) = \frac{(-5-3)^2}{-5-10} = \frac{64}{-15}$ 

V. A @ 
$$x = 10$$
  $f(10.1)$  is  $\frac{(+)(+)}{(+)(+)}$   $f(9.9)$  is  $\frac{(+)(+)}{(+)(-)}$ 

$$f(100000)$$
 is  $\frac{(+)(+)}{(+)(+)}$  so + -

$$y-int = \frac{(-3)^2(8)}{(8)(-10)} = \frac{9}{-10}$$



