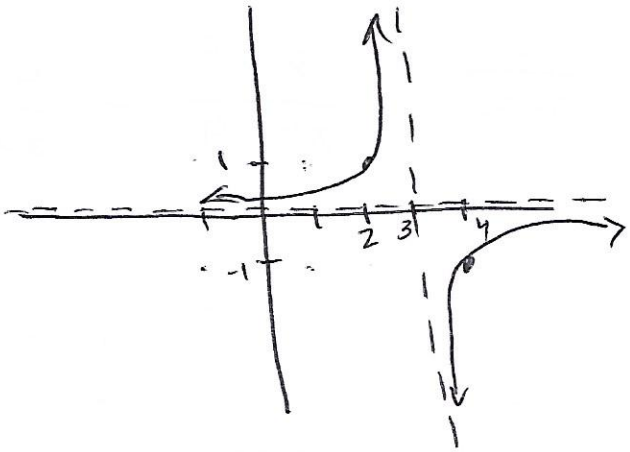
20. $g(x) = -\frac{1}{x-3}$

reflect over x-axis
right 3



21) $f(x) = \frac{2x+3}{x-2}$

holes: none
VA: $x=2$
HA: $y=2$

22) $f(x) = \frac{x^2-x-12}{x-4}$

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

$= x+3$

Hole: $(4,-3)$
VA: None
HA: None

23) $f(x) = \frac{x-2}{x^2-4}$

$f(x) = \frac{x-2}{(x-2)(x+2)}$

$= \frac{1}{x+2}$

Hole: $(2, 1/4)$
VA: $x=-2$
HA: $y=0$

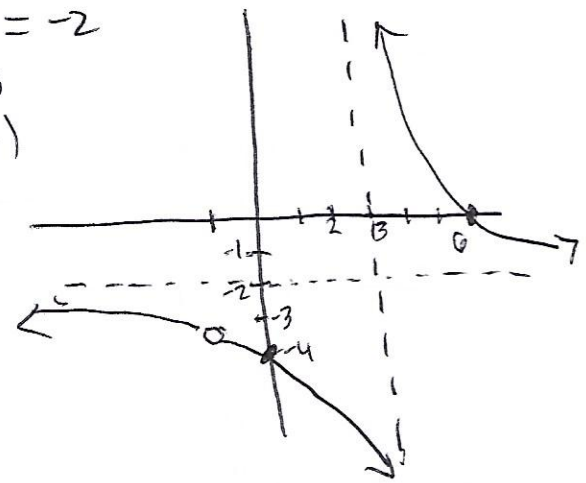
24) $f(x) = \frac{-4(x^2-5x-6)}{2(x^2-2x-3)}$

$= \frac{-4(x-6)(x+1)}{2(x-3)(x+1)}$

$= \frac{-2(x-6)}{x-3}$

$\frac{-2(-6)}{-3} =$

Hole: $(-1, -7/2)$ $\frac{-2(-7)}{-4} = \frac{14}{-4}$
VA: $x=3$
HA: $y=-2$
xint $(6,0)$
yint $(0,-4)$



25) $f(x) = \frac{x+1}{x^2-1}$

$= \frac{x+1}{(x+1)(x-1)}$

$= \frac{1}{x-1}$

Hole: $(-1, -1/2)$
VA: $x=1$
HA: $y=0$
xint: none
yint: $(0,-1)$