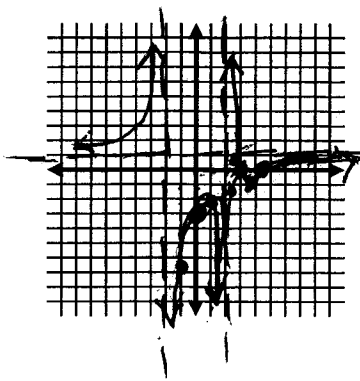


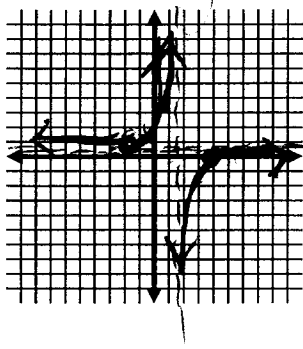
NOW YOU TRY:

c) $f(x) = \frac{x^2 - 7x + 12}{x^2 - 4} \rightarrow = \frac{(x-3)(x-4)}{(x+2)(x-2)}$ d) $f(x) = \frac{2x^2 - 5x - 12}{4x^2 - 9}$

$\frac{(2x+3)(x-4)}{(2x+3)(2x-3)}$
 Holes: $(-\frac{3}{2}, \frac{1}{2})$



Holes: none
 x-ints: (3, 0) (4, 0)
 y-int: (0, -3)
 VA: X = -2, X = 2
 End Behavior Asymptote: H.A. y = 1



Holes: (-\frac{3}{2}, \frac{1}{2})
 x-ints: (4, 0)
 y-int: (0, \frac{4}{3})
 VA: X = \frac{3}{2}
 End Behavior Asymptote: H.A. y = \frac{1}{2}

Statements:

-1	$\frac{1+7+12}{1-4} = \frac{20}{-3} = -\frac{6\frac{2}{3}}$
1	$\frac{1-7+12}{1-4} = \frac{6}{-3} = -2$
2.5	$\frac{1}{3}$
3.5	-0.03

$\lim_{x \rightarrow -\infty} f(x) = 1$ $\lim_{x \rightarrow \infty} f(x) = 1$
 $\lim_{x \rightarrow 2^-} f(x) = \infty$ $\lim_{x \rightarrow 2^+} f(x) = -\infty$
 $\lim_{x \rightarrow -2^+} f(x) = -\infty$ $\lim_{x \rightarrow -2^-} f(x) = \infty$
 $\lim_{x \rightarrow 2} f(x) = \text{DNE}$ $\lim_{x \rightarrow -2} f(x) = \text{DNE}$

Statements:

$\lim_{x \rightarrow -\infty} f(x) = \frac{1}{2}$ $\lim_{x \rightarrow \infty} f(x) = \frac{1}{2}$
 $\lim_{x \rightarrow -3/2^-} f(x) = \frac{11}{12}$ $\lim_{x \rightarrow 3/2^-} f(x) = \infty$
 $\lim_{x \rightarrow -3/2^+} f(x) = \frac{11}{12}$ $\lim_{x \rightarrow 3/2^+} f(x) = -\infty$
 $\lim_{x \rightarrow -3/2} f(x) = \frac{11}{12}$ $\lim_{x \rightarrow 3/2} f(x) = \text{DNE}$