	onenons wintolarii 7.5)	ymprores and notes in	10103
Holes: An open on th	e graph, (x,y). This is wh	here there is a	in the graph
and occurs when there is a	between the num		and denominator.
The X-coordinate is found by setting	the common factor ed	qual to zero. The Y-co	ordinate is found by
substituting the x-coordinate into the	simplified equation.		
Ex: $f(x) = \frac{x^2 - 4x + 3}{x^2 - x - 6}$			
Slant Asymptotes: If the degree on the	ne is		higher than the
degree on the	, then the function	has a slant asymptote	9,
• Us	e to find	d the equation.	
Ex: $f(x) = \frac{x^2 + x - 6}{x + 2}$			
1.) $f(x) = \frac{x^2 - 6x + 8}{x^2 - 16}$			
x-intercept(s):			
y-intercepts:	_		
VA:	_		
HA:	_		
SA:			
hole:			
domain:			
range:			
End Behavior:		++++++	
$as x \to \infty, f(x) \to :$			
$as x \to -\infty, f(x) \to :$	_ 📙		

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

x-intercept(s):

y-intercept: _____

VA: _____

HA: _____

SA: _____

hole:

domain:

range:_____

End Behavior:

$$as x \rightarrow \infty, f(x) \rightarrow :$$

$$as x \rightarrow -\infty, f(x) \rightarrow :$$

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

x-intercept(s):

y-intercept: _____

VA:_____

HA: _____

SA: _____

hole:_____

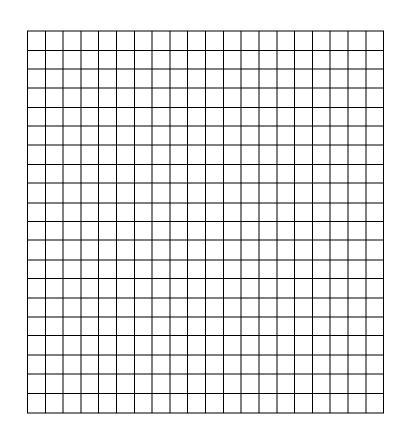
domain: _____

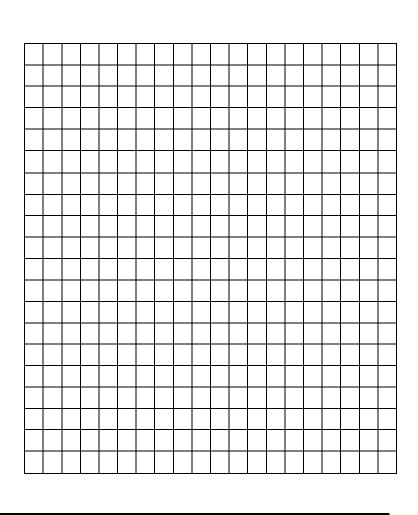
range:____

End Behavior:

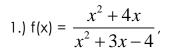
$$as x \rightarrow \infty, f(x) \rightarrow :$$

as
$$x \to -\infty$$
, $f(x) \to :$ _____





Graphing Rational Functions with Slants and Holes HW



x-intercept(s):

y-intercept: _____

VA:_____

HA: _____

SA: _____

hole: _____

domain:

range: _____

End Behavior:

$$as x \to \infty, f(x) \to :$$

as
$$x \to -\infty$$
, $f(x) \to :$

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

x-intercept(s):

y-intercept: _____

HA: _____

SA: _____

hole: _____

domain:

range:_____

End Behavior:

$$as x \to \infty, f(x) \to \vdots$$

$$as x \to -\infty, f(x) \to \vdots$$

as
$$x \to -\infty$$
, $f(x) \to \overline{:}$

