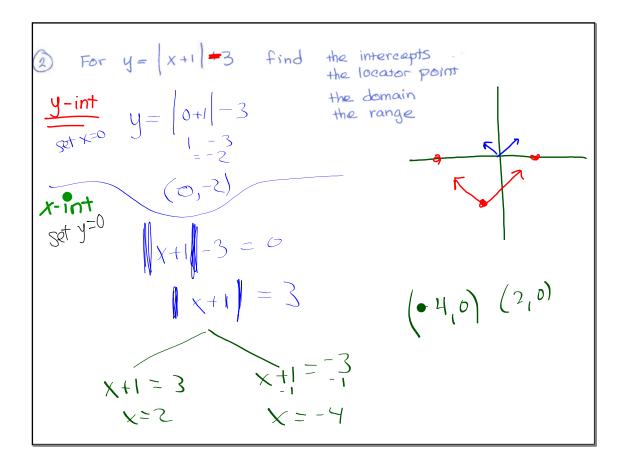
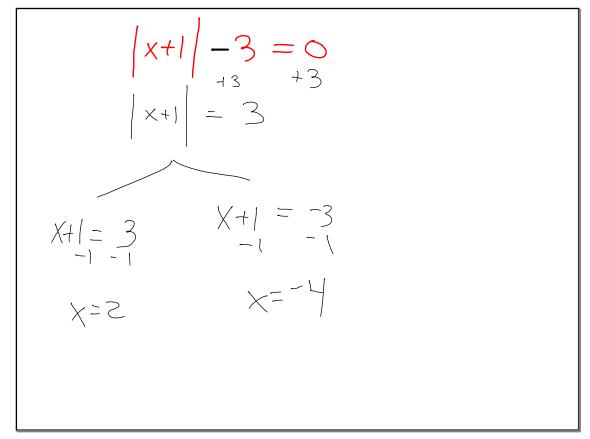
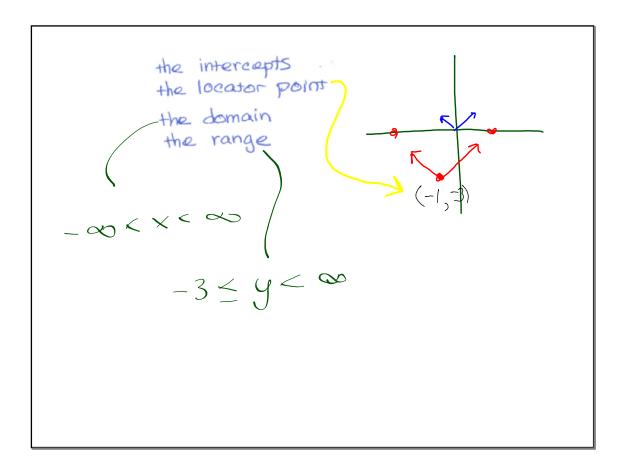


How Find both the x-and y-intercepts of 
$$y = +x^2 + 2x - x(2x-4)$$
  
y-intercept  $x = 0$   
 $y = -(0)^2 + 2(0)$   
 $y = -(0)^2 + 2(0)$   
 $(0, 0)$   
 $(0, 0)$   
 $(0, 0)$   
 $(0, 0)$   
 $(2, 0)$   
 $(2, 0)$   
 $(0, 0)$   
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 $(2, 0)$   
 $(2, 0)$   
 $(2, 0)$   
 $(2, 0)$   
 $(2, 0)$ 

b. Then find the vortex by averaging the x-intercepts (h,k)(1, 1)  $(1) = -(1)^{2} + 2(1)$ 0+2 = 1c, Then write the equation is graphing form V. Stretch factor is 1, negative stor  $\bigcup_{i=1}^{n} = -\left(\chi_{-1}\right)^{2} + 1$ d. what is locator point? ( | | )

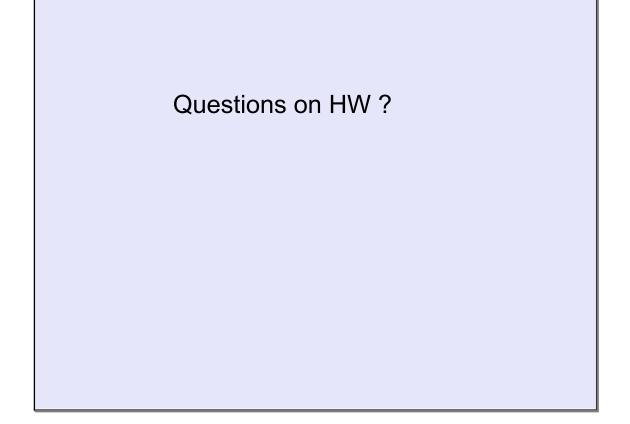


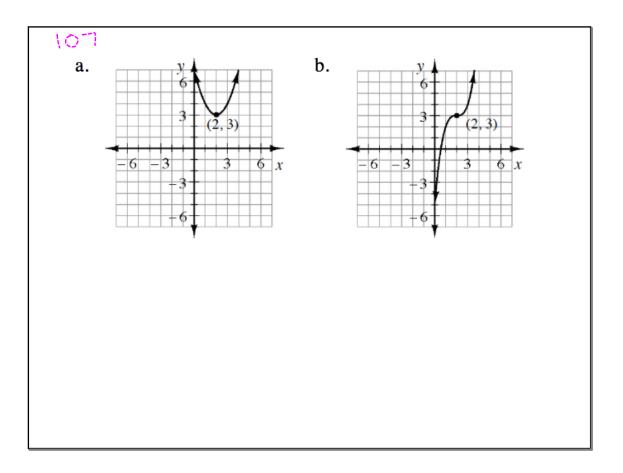


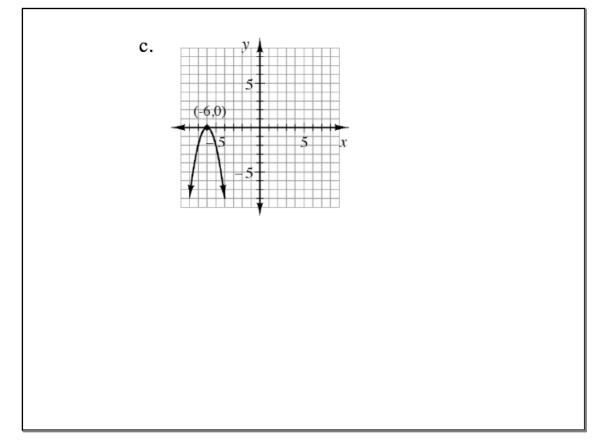


$$y = x$$
(3) sketch  $f(x) = \frac{1}{x+5} + 4$  with its  
asymptotes, write the equation  
of each asymptote,  
(Hint: what is the parent)  
of  $f(x)$ ?  
 $V \ eff$ . (Sym  
 $horiz$  (Symptote).

(\*) suppose 
$$g(k) = \chi^2 + 2\chi$$
  
create a function  $f(x)$  that is created by translating  
 $g(x)$  five units to the right.  
 $f(k) = (\chi - 5)^2 + \partial (\chi - 5)$   
 $\chi$   
 $\chi$ 

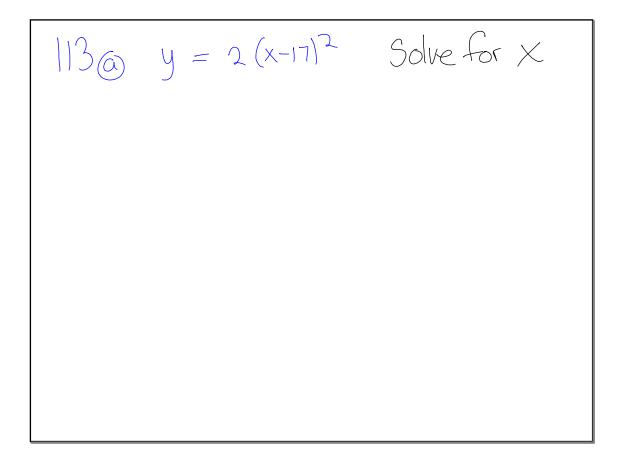




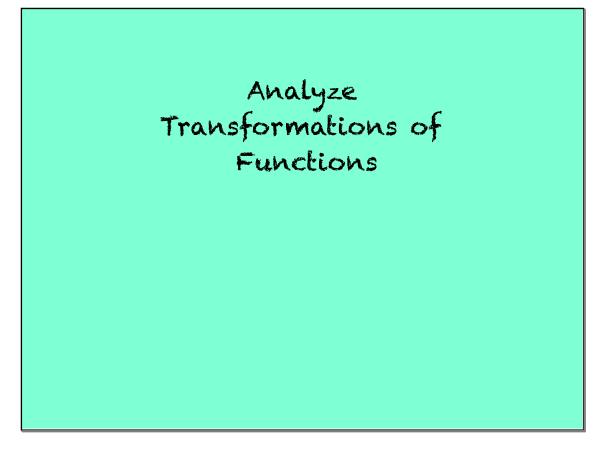




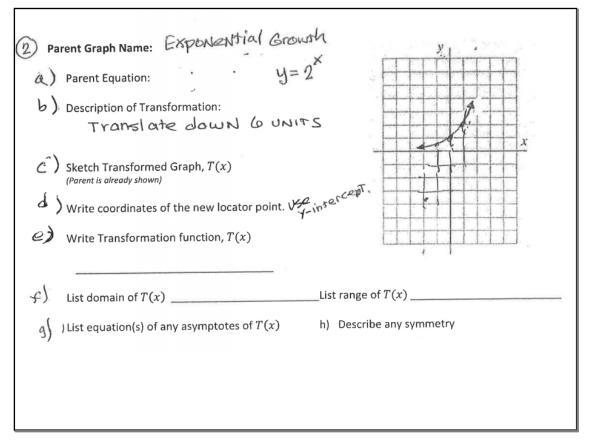
## **2-111.** a. $5^{-2} \cdot 4^{1/2}$ b. $\frac{3xy^2z^{-2}}{(xy)^{-1}z^2}$ c. $(3m^2)^3(2mn)^{-1}(8n^3)^{2/3}$ d. $(5x^2y^3z)^{1/3}$



## Test Information



1) Parent Graph Name: Absolute Value 4= |x|  $\alpha$ ) Parent Equation: b) Description of Transformation: negative orientation with a vertical stretch of 3, Translated 2 units to the right X 8 8 c) Sketch Transformed Graph, T(x)(Parent is already shown) A) Write coordinates of the new locator point. (2, 0)e) Write Transformation function,  $T_i(x)$  T(x) = -3(x-2)-00 (f) List domain of  $T(x) = \infty < \chi < \infty$ List range of  $T(x) - \infty + \gamma \leq 0$ g) List equation(s) of any asymptotes of T(x)h) Describe any symmetry reflective symmetary about X=2 NONE



<ul> <li>b) Description of Transformation:</li> <li>c) Sketch Transformed Graph, T(x) (Parent is already shown)</li> <li>d) Write coordinates of the new locator point.</li> <li>e) Write Transformation function, T(x)</li> <li>f) List domain of T(x) List range of T(x)</li> <li>g) List equation(s) of any asymptotes of T(x)</li> <li>h) Describe any symmetry</li> </ul>	a)	Parent Equation:	
<ul> <li>(Parent is already shown)</li> <li>d) Write coordinates of the new locator point.</li> <li>e) Write Transformation function, T(x)</li> <li>f) List domain of T(x)List range of T(x)</li> </ul>	b)	Description of Transformation:	
<ul> <li>d) Write coordinates of the new locator point.</li> <li>e) Write Transformation function, T(x)</li> <li>f) List domain of T(x)List range of T(x)</li> </ul>	c)		
f) List domain of <i>T</i> ( <i>x</i> )List range of <i>T</i> ( <i>x</i> )	d)	Write coordinates of the new locator point.	
	e)	Write Transformation function, $T(x)$	
g) List equation(s) of any asymptotes of $T(x)$ h) Describe any symmetry	f)	List domain of $T(x)$	List range of $T(x)$
	g)	List equation(s) of any asymptotes of $T(x)$	h) Describe any symmetry

4	Par	ent Graph Name: Parabola	<u>y</u>
	h)	Parent Equation:	
	i)	Description of Transformation:	
	j)	Sketch Transformed Graph, $T(x)$ (Parent is already shown)	
	k)	Write coordinates of the new locator point.	
	I)	Write Transformation function, $T(x)$	
	m)	List domain of $T(x)$	List range of $T(x)$
	n)	List equation(s) of any asymptotes of $T(x)$	h) Describe any symmetry

5	Par	rent Graph Name: Hyperbola (reciprocal)
		Parent Equation:
	p)	Description of Transformation: Translate 3 Units right and 5 units up
	q)	Sketch Transformed Graph, T(x)
	r)	Write coordinates of the new locator point.
		Write Transformation function, <i>T</i> ( <i>x</i> )
	. \	$\lim_{x \to \infty} f(x) = \int f(x) dx$
	t)	List domain of $T(x)$ List range of $T(x)$
	u)	List equation(s) of any asymptotes of $T(x)$ h) Describe any symmetry

<ul> <li>w) Description of Transformation:</li> <li>x) Sketch Transformed Graph, T(x) (Parent is already shown)</li> <li>y) Write coordinates of the new locator point.</li> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x) List range of T(x)</li> </ul>	<ul> <li>w) Description of Transformation:</li> <li>x) Sketch Transformed Graph, T(x) (Parent is already shown)</li> <li>y) Write coordinates of the new locator point.</li> <li>z) Write Transformation function, T(x)</li> </ul>	) Parent Graph Name: v) Parent Equation: $y = -\frac{1}{x^2}$		+		y T		4	1	P	
<ul> <li>(Parent is already shown)</li> <li>y) Write coordinates of the new locator point.</li> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x) List range of T(x)</li> </ul>	<ul> <li>(Parent is already shown)</li> <li>y) Write coordinates of the new locator point.</li> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x) List range of T(x)</li> </ul>					-					
<ul> <li>(Parent is already shown)</li> <li>y) Write coordinates of the new locator point.</li> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x) List range of T(x)</li> </ul>	<ul> <li>(Parent is already shown)</li> <li>y) Write coordinates of the new locator point.</li> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x) List range of T(x)</li> </ul>			+		-			-	H	x
<ul> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x)List range of T(x)</li> </ul>	<ul> <li>z) Write Transformation function, T(x)</li> <li>aa) List domain of T(x) List range of T(x)</li> </ul>			-							
aa) List domain of <i>T</i> ( <i>x</i> )List range of <i>T</i> ( <i>x</i> )	aa) List domain of <i>T</i> ( <i>x</i> )List range of <i>T</i> ( <i>x</i> )	y) Write coordinates of the new locator point.		-		-	-		-		
	a,	z) Write Transformation function, $T(x)$	- Constanting -	1					1		
(b) List equation(s) of any asymptotes of $T(x)$ (b) Describe any symmetry	bb) List equation(s) of any asymptotes of $T(x)$ h) Describe any symmetry	aa) List domain of $T(x)$	List range of '	Г(х)							
bb/list equation(s) of any asymptotes of t (c)		bb) List equation(s) of any asymptotes of $T(x)$	h) Describe	any s	sym	met	ry		ų.		

		Work Backwards Starting from graph	Name	per
6	Par	rent Graph Name:	<u>y</u>	
	a)	Parent Equation:		
	b)	Description of Transformation:		
	c)	Sketch Transformed Graph, $T(x)$ (Parent is already shown)		
	d)	Write coordinates of the new locator point.		
	e)	Write Transformation function, $T(x)$		
	f)	List domain of $T(x)$	List range of $T(x)$	
	g)	List equation(s) of any asymptotes of $T(x)$	h) Describe any symmetry	

