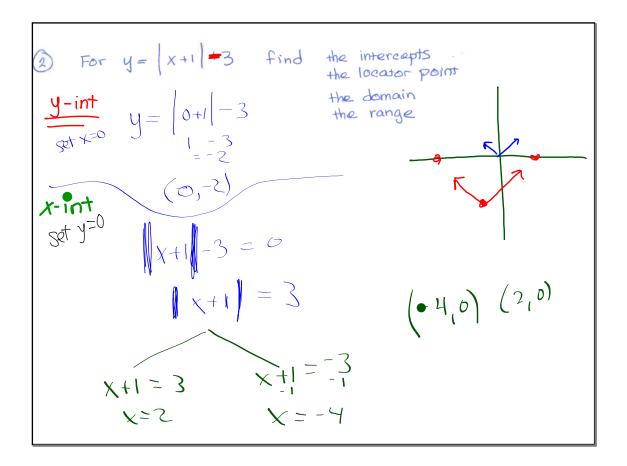
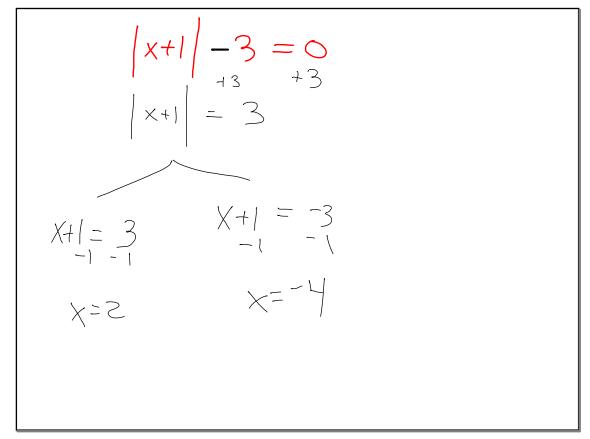


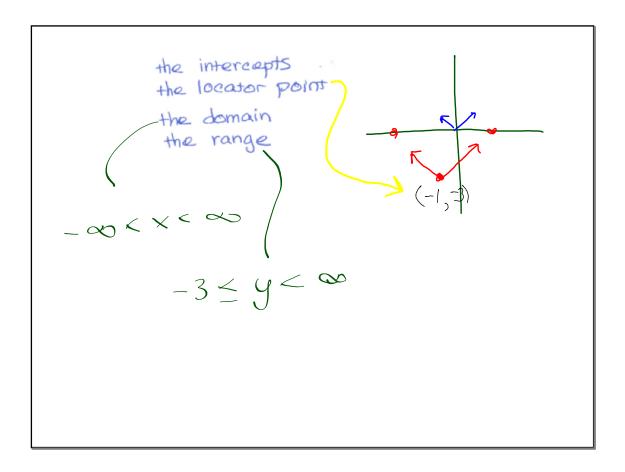
How Find both the x-and y-intercepts of
$$y = +x^2 + 2x - x(2x-4)$$

y-intercept $x = 0$
 $y = -(0)^2 + 2(0)$
 $y = -(0)^2 + 2(0)$
 $(0, 0)$
 $(0, 0)$
 $(0, 0)$
 $(0, 0)$
 $(2, 0)$
 $(2, 0)$
 $(0, 0)$
 $(2, 0)$
 $(2, 0)$
 $(0, 0)$
 $(2, 0)$
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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? (| |)



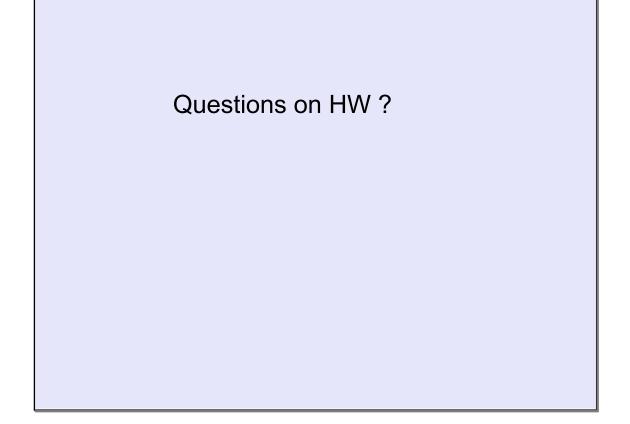


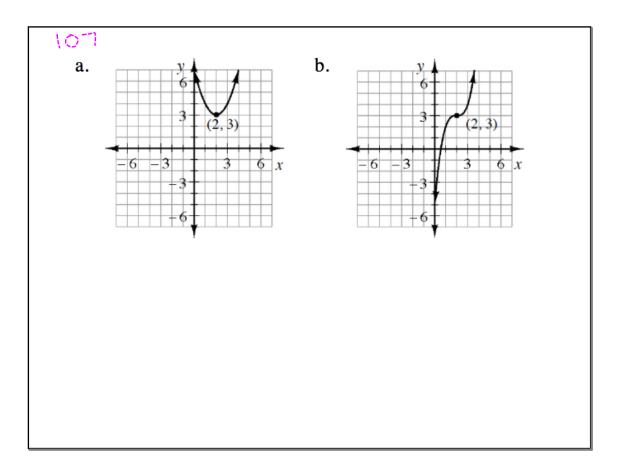


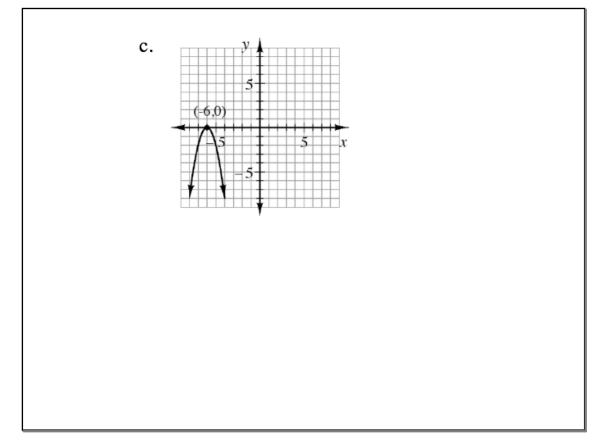
$$y = x$$
(3) sketch $f(x) = \frac{1}{x+5} + 4$ with its
asymptotes, write the equation
of each asymptote,
(Hint: what is the parent)
of $f(x)$?
 $V \ eff$. (Sym
 $horiz$ (Symptote).

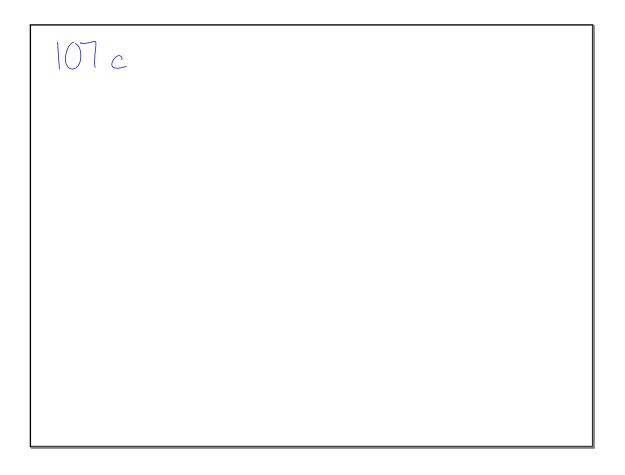
(*) suppose
$$g(k) = \chi^2 + 2\chi$$

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

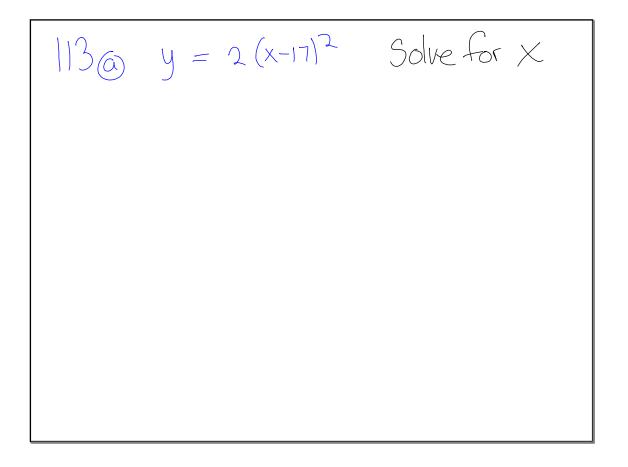




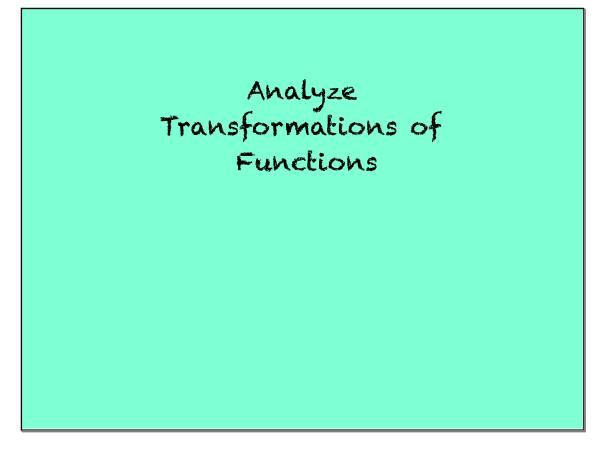




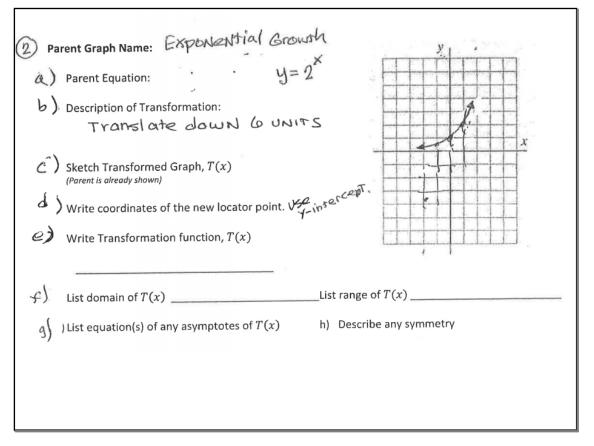
2-111. a. $5^{-2} \cdot 4^{1/2}$ b. $\frac{3xy^2z^{-2}}{(xy)^{-1}z^2}$ c. $(3m^2)^3(2mn)^{-1}(8n^3)^{2/3}$ d. $(5x^2y^3z)^{1/3}$



Test Information



1) Parent Graph Name: Absolute Value 4= |x| α) 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



 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 	a)	Parent Equation:	
 (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) 	b)	Description of Transformation:	
 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) 	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

 w) Description of Transformation: x) Sketch Transformed Graph, T(x) (Parent is already shown) y) Write coordinates of the new locator point. z) Write Transformation function, T(x) aa) List domain of T(x) List range of T(x) 	 w) Description of Transformation: x) Sketch Transformed Graph, T(x) (Parent is already shown) y) Write coordinates of the new locator point. z) Write Transformation function, T(x)) Parent Graph Name: v) Parent Equation: $y = -\frac{1}{x^2}$		+		y T		4	1	P	
 (Parent is already shown) y) Write coordinates of the new locator point. z) Write Transformation function, T(x) aa) List domain of T(x) List range of T(x) 	 (Parent is already shown) y) Write coordinates of the new locator point. z) Write Transformation function, T(x) aa) List domain of T(x) List range of T(x) 					-					
 (Parent is already shown) y) Write coordinates of the new locator point. z) Write Transformation function, T(x) aa) List domain of T(x) List range of T(x) 	 (Parent is already shown) y) Write coordinates of the new locator point. z) Write Transformation function, T(x) aa) List domain of T(x) List range of T(x) 			+		-			-	H	x
 z) Write Transformation function, T(x) aa) List domain of T(x)List range of T(x) 	 z) Write Transformation function, T(x) aa) List domain of T(x) List range of T(x) 			-							
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	

