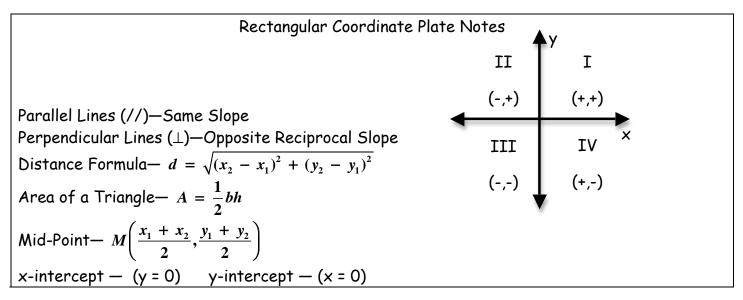
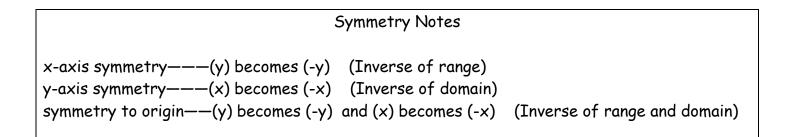
Name

~TURN IN ALL WORK AND ANSWERS ON A SEPARATE SHEET(S) OF PAPER.~

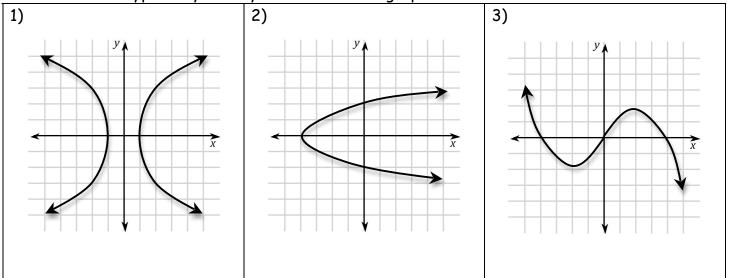


	Work	
 Plot the following points on a coordinate plane. A(2,4),B(-3,1),C(7,-5),D(-1,-7) 	 2) Find the distance between the following sets of points. A{(2,3),(-4,11)} B{(3,7),(-2,5)} 	3) Plot each point and form $\triangle ABC$. Verify that the triangle is a right triangle. $A(1,1)$, $B(1,5)$ & $C(3,3)$
4) Find the midpoint of each set of points. A{(-3,4),(7,10)} B{(4,8),(11,12)}	5) Tell whether the given points are on the graph of the equation. Equation: $y = x^3 - 2\sqrt{x}$ Points: (0,0); (1,1); (1,-1)	6) List all the intercepts of the graph shown:
7) Graph the line: y = x - 6	8) Graph the parabola: $y = -x^2 + 4$	9) Graph the line: 2x + 3y = 8

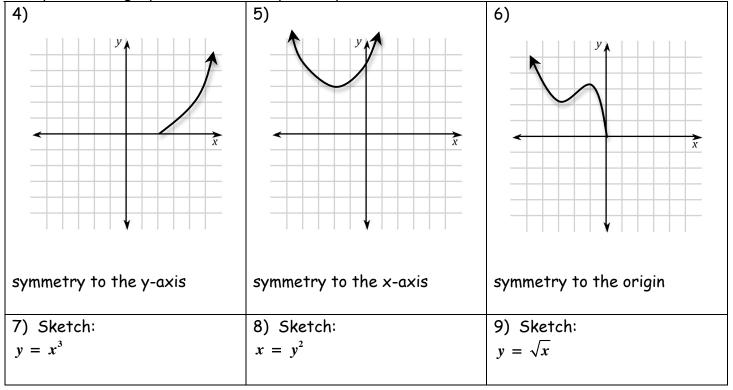


Work

Indicate which type of symmetry is shown in each graph.



Complete each graph so it has the symmetry indicated.



Lines Notes	
$rise x = 0 \qquad x - int - y = 0$	
$lope = \frac{rise}{run} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = m$	
oint slope form: $y - y_1 = m(x - x_1)$	
lope intercept form: <i>y = mx + b</i> / lines have same slope	
lines have opposite reciprocal slopes	

Work

Find the equation for the line with the given criteria. (Write in slope-intercept form.)

1) slope = 2, goes through (-2,3)	2) goes through (-1,1) and (2,3)	3) x-int @ -3, y-int @ 5
4) // to y = -3x and goes through (-1,2)	5) \perp to y = 2x - 3 and goes through (1,-2)	6) y-int @ 2 and slope of $1/_2$

Find the x and y- intercepts and graph each line.

7) $\frac{1}{2}y = x - 1$	8) $\frac{1}{3}x + y = 2$	9) 2x - 3y = 6	
10) Use slopes to show that the quadrilateral with vertices at (-1,0), (2,3), (1,-2) and (4,1) is a rectangle.			