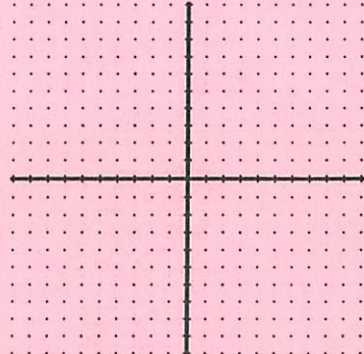
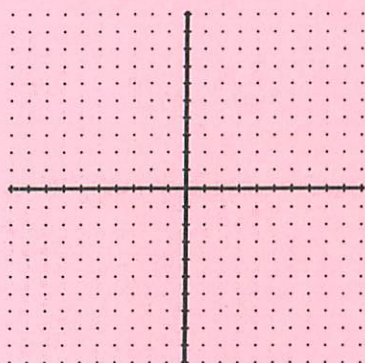


GRAPHING

Part 1 Graph each of the following. Label the vertex, tell if it is steeper or narrower than $y=|x|$

1. $y = \frac{1}{3}|x+4|+2$

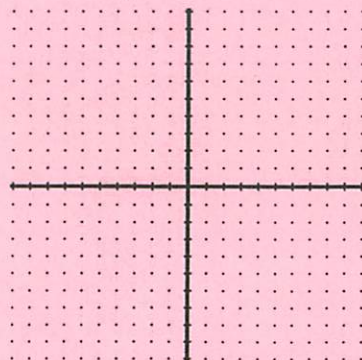
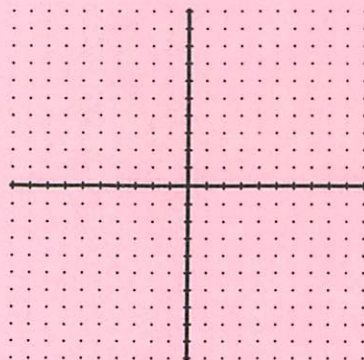
2. $y > 2x - 6$



Part 2 Graph each of the following.

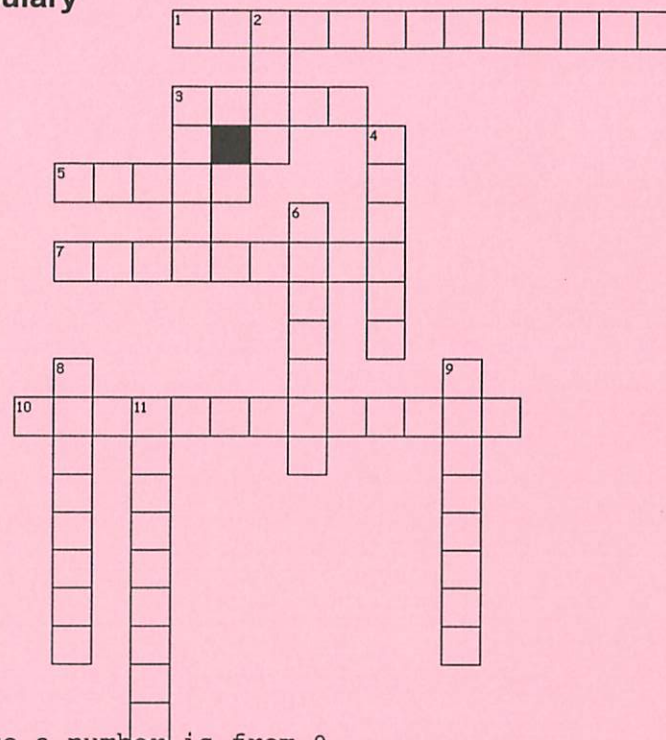
3. $y = \begin{cases} 2x, & x < 2 \\ x+3, & x \geq 2 \end{cases}$

4. $y = \begin{cases} -4 \leq x < -2 \\ y = 6, & -2 \leq x < 1 \\ -4, & 1 \leq x < 5 \end{cases}$



ALGEBRA II HONORS Ch 1 Review /Preview Packet

Part 1 Vocabulary



Across

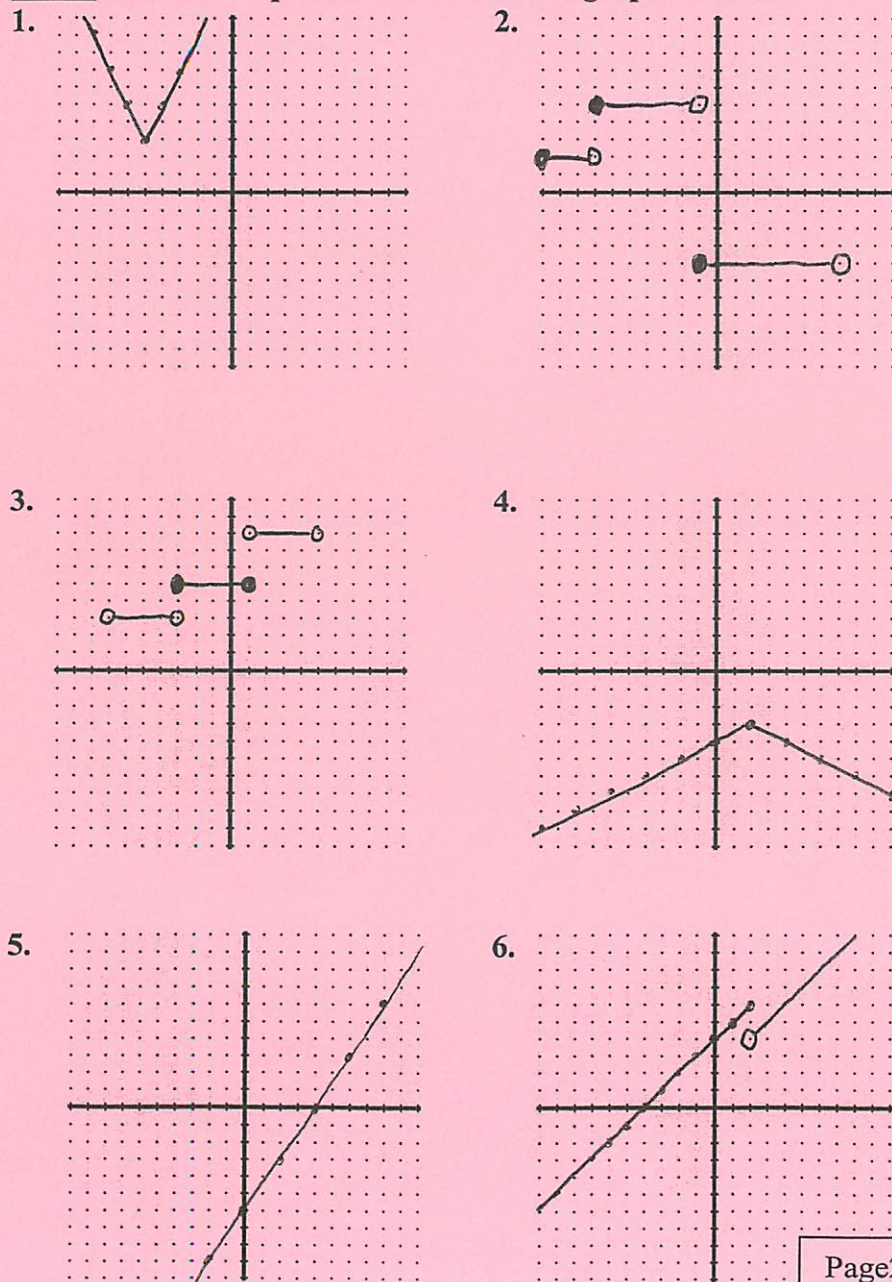
- the distance a number is from 0.
- a graph whose slope has a high absolute value.
- bald guy standing in the front of the room.
- where a graph crosses an axis.
- lines that meet in a right angle.

Down

- this type of function gets it's name from what it's graph looks like.
- when graphing an inequality on a coordinate plane, don't forget to do this above or below the line.
- The "corner" in an absolute value graph.
- this is the line that most closely matches data.
- the ____ line test is used to determine if a graph is a function.
- lines with the same slope are said to be ____.
- a function for which the operations change depending on the x values.

GRAPHS

Part 1 Write the equation for each of the graphs shown



ABSOLUTE VALUES

Part 1 Find the best fit line.

1.

9	8
15	6
32	15
21	8
39	16
2	4
20	14

2.

2	22
29	97
18	68
25	61
5	36
22	84
11	35

Part 2 Find the equation of the line between the points.

3. $(8, -7)$ & $(-12, 8)$

4. $(-2, -1)$ & $(6, 19)$

Part 3. Answer the following in the space provided.

5. At 5AM, Rocky the squirrel had 4 acorns in his nest. By 11AM he had 47.

a) Write an equation to describe Rocky's acorn gathering.

b) How many will he have by 3PM?