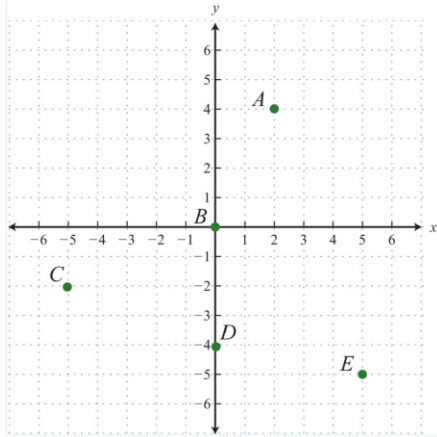


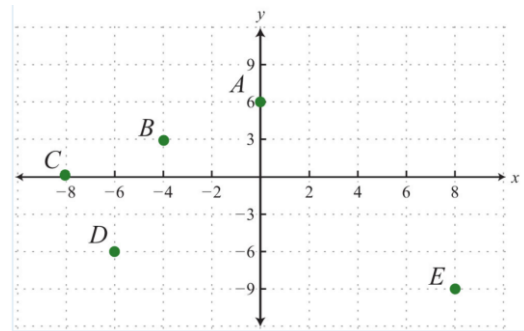
**Instructions:** Record your answers to each of these problems directly on this page. Do the work on a separate page and attach these pages to this one. You should do the work by hand, but you may check your work with a calculator. You can find printable graph paper here:

<http://betsymccall.net/prof/courses/resources/graphpaper.html>

1. Identify the points on the graph and label each quadrant.



a.



b.

2. Graph the listed points on a graph and identify which quadrant (if any) that the point falls in.

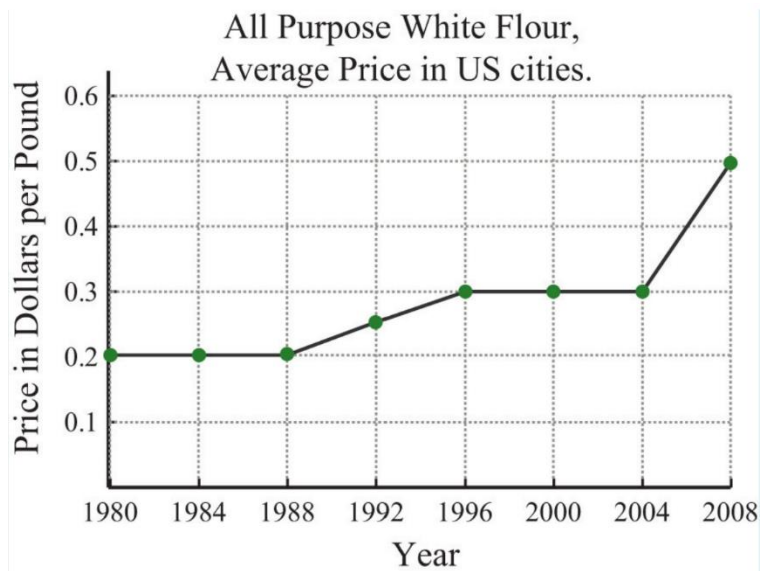
- a.  $\{(-8, 3), (-4, 6), (0, -6), (6, 9)\}$   
 b.  $\{(-3.5, 0), (-1.5, 2), (0, 1.5), (2.5, -1.5)\}$

3. Answer the questions based on the graph.

- a. What was the average price of flour in 1988?  
 b. What was the average price of flour in 1996?

4. Determine whether the given point satisfies the equation.

- a.  $3x-4y=10$ ;  $(2, -1)$   
 b.  $-10x+2y=-95$ ;  $(15, 110)$   
 c.  $y=-13x-12$ ;  $(12, -23)$   
 d.  $y=4$ ;  $(4, -4)$   
 e.  $x=3$ ;  $(3, -3)$



5. Given the set of x-values  $\{-2, -1, 0, 1, 2\}$ , find the corresponding y-values and graph them.
- a.  $y=2x-1$   
 b.  $6x-3y=9$   
 c.  $y=-5$

6. Plot the graphs and label the intercepts.

- a.  $y=x$
- b.  $-x+5y=0$
- c.  $y=-4x+2$
- d.  $y=-10$
- e.  $x=-1$

7. Graph the equations on a graph. Label any intercepts. Plot at least 5 points. Include values of  $x$  that are both positive and negative.

- a.  $y = x^2 - 3x - 4$
- b.  $x^2 + y^2 = 4$
- c.  $y = |x|$
- d.  $y = 2^x$

8. Graph the inequalities on a graph. Shade appropriately.

- a.  $3x + 4y > 12$
- b.  $y \leq -3x + 9$
- c.  $y > 10$