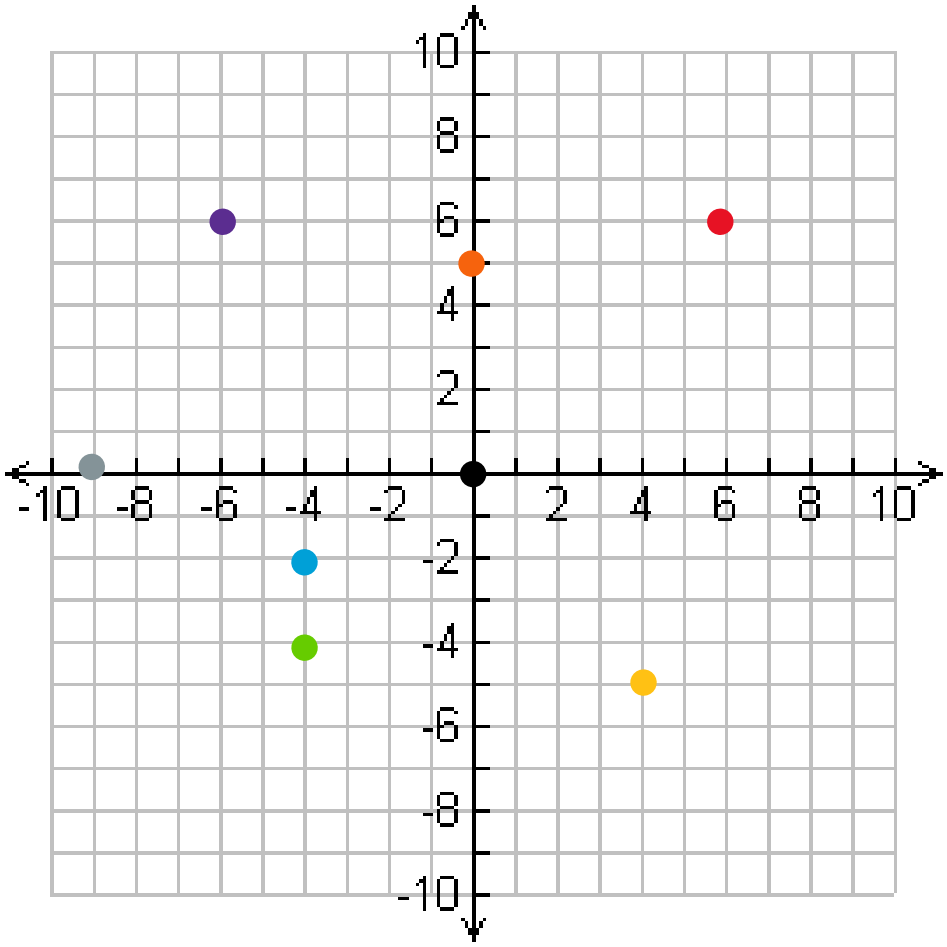
Name: _____ Circle: Monday / Wednesday

Graph Basics



1. Label the x-axis and the y-axis.
2. Give the coordinates of the following points:

Yellow:	Blue:
Red:	Green:
Orange:	Purple:
Black:	Grey:

3. Label the quadrants.
4. Give a negative or positive sign to each x and y in the following quadrants:
   a. First Quadrant: (x, y)
   b. Second Quadrant: (x, y)
   c. Third Quadrant: (x, y)
   d. Fourth Quadrant: (x, y)

```
from turtle import Turtle
t = Turtle()   #your turtle is created at (0,0)

#first quadrant  (positive x, positive y)
#draw square
t.up()
t.goto(100, 100)
t.down()

t.goto(200, 100)
t.goto(200, 200)
t.goto(100,200)
t.goto(100,100)


#second quadrant (negative x, negative y)
#draw zigzag
t.up()
t.goto(-50, 50)
t.down()

t.goto(-100, 100)
t.goto(-150, 50)
t.goto(-200, 100)
t.goto(-200, 150)
t.goto(-150, 100)
t.goto(-100, 150)
t.goto( -50, 100)
t.goto(-50, 50)

#third quadrant (negative x, negative y)
#fill in the blanks to draw a diamond

t._____ ()

t._______(-150, -100)

t._______()


t.goto( _____ , _____ )

t.goto( _____ , _____ )

t.goto( _____ , _____ )

t.goto( _____ , _____ )


#fourth quadrant (positive x, negative y)
#you're on your own! draw a shape that starts at the point (100, -100)
#hint: if you want to do something quick, a circle is the way to go 😊
```

View of the turtle canvas with gridlines: