1. Write a declaration for each of the following:
   - A rectangle that is 200 pixels wide, 50 pixels high, and has its upper-left corner at point (0, 20).
     
     ```java
     Rectangle rect = new Rectangle(0,20,200,50);
     ```
   - An ellipse that is centered at point (100, 180) and is 100 pixels wide and 80 pixels high.
     
     ```java
     Ellipse ellipse = new Ellipse(100, 180, 100, 80);
     ```

2. Are the following lines horizontal, vertical, or neither?
   - `new Line(30, 60, 75, 100)` neither
   - `new Line(150, 0, 150, 40)` vertical

4. The following code was used in the lab to create the color for the ground:
   
   ```java
   Color dirtySnow = Color.rgb(200,220,220);
   ground.setFill(dirtySnow);
   ```
   
   How would you modify the code so that the color of the ground was set to white?

   ```java
   Color dirtySnow = Color.rgb(255, 255, 255);
   ground.setFill(dirtySnow);
   ```
   alternatively:

   ```java
   ground.setFill(Color.white);
   ```
Quiz 7 3/28/19  Name:_______ KEY ___/20

1. Write a declaration for each of the following:
   
   - A line that extends from the top left corner to (60, 100) to point (30, 90).
     
     ```java
     Line line = new Line(0, 0, 60, 100);
     ```
   
   - A circle that is centered at point (100, 200) and has a radius of 80.
     
     ```java
     Circle circ = new Circle(100, 200, 80);
     ```

2. Is each of the following ellipses wider than it is tall or taller than it is wide?

   - new Ellipse(200, 100, 30, 10) wider than it is tall
   - new Ellipse(150, 220, 60, 30) wider than it is tall

3. The following code was used in the lab to create the color for the ground:

   ```java
   Color dirtySnow = Color.rgb(200, 220, 220);
   ground.setFill(dirtySnow);
   ```

   How would you modify the code so that the color of the ground was set randomly?

   ```java
   Color dirtySnow = Color.rgb(rand.nextInt(256), rand.nextInt(256), rand.nextInt(256));
   ground.setFill(dirtySnow);
   ```

---

Figure 3.11 Constructors for some JavaFX shape classes