1 Identify the syntax error in each of the following.

```
(a) void drawIt(x, y) {
      // implementation not shown
}

(b) void doSomething {
      // implementation not shown
}

(c) mystery(boolean a) {
      // implementation not shown
```

2 Explain why the following does not work as intended.

```
int a = 4;

void draw() {
   incr(a);
}

void incr(int a) {
   a = a + 1;
}
```

- 3 Explain why you might want to use a method to represent a section of your programming code, even if that section does not need to be repeated.
- 4 Create the dartboard() method which will take as its sole parameter, scale, to use as the scale of the dartboard. Use your most recent rendition of the Dartboard program from Assignment #5 as the basis for this method.
- 5 Implement the transformAndDrawPoint() method with the following definition:

```
transformAndDrawPoint(x, y, xMin, yMin, xMax, yMax, size)
```

which will transform the point, (x, y), from a coordinate plane defined by (xMin, yMin), (xMax, yMax) to one defined by (0,0), (width, height) and draw it on the screen as a circle centered at (x', y') with diameter size.

**Note:** You may want to use your solution to drawing a graph from Assignment #5 in order to guide and test your solution for this question.

- 6 Revisit your most recent Processing Bee implementation (Assignment #3) to implement each of the following.
  - (a) The drawBee() method which accepts the parameters, x and y, and draw the Processing Bee centered on the given x and y.
  - (b) An overloaded drawBee() method which accepts the parameters, x and y, and additionally accepts the scale parameter to draw the Processing Bee centered on the given x and y and scaled according to the given scale factor.
  - (c) Change your solution to part (a) to call your method from part (b). Explain why this approach might be beneficial.

(3)

(3)

(5)

(5)

(10)

(20)