Question 5:

```java
class Polygon {
  public static int area(int side) {
    return side * side;
  }

  public static double area(double radius) {
    return 3.14 * radius * radius;
  }

  public static int area(int length, int width) {
    return length * width;
  }
}

public class Lab03Q5 {
  public static void main(String[] args) {
    int side = 10;
    System.out.println("side = " + side);
    int areaSquare = Polygon.area(side);
    System.out.println("area = " + areaSquare);

    double radius = 6.5;
    System.out.println("radius = " + radius);
    double areaCircle = Polygon.area(radius);
    System.out.println("area = " + areaCircle);

    int length = 5;
    int width = 4;
    System.out.println("length = " + length + ", width = " + width);
    int areaRect = Polygon.area(length, width);
    System.out.println("area = " + areaRect);
  }
}
```

Outpt:

```
side = 10
area = 100
radius = 6.5
area = 132.665
length = 5, width = 4
area = 20
```

Question 6:

```java
class Rectangle {
  int lenght;
  int width;

  Rectangle() {
    lenght = 0;
    width = 0;
  }

  Rectangle(int lenght, int width) {
    this.lenght = lenght;
    this.width = width;
  }

  int area() {
    return lenght * width;
  }
}

public class Lab03Q6 {
  public static void main(String[] args) {
    Rectangle r1 = new Rectangle();
    System.out.println("Area of rectangle 1: " + r1.area());

    Rectangle r2 = new Rectangle(5, 3);
    System.out.println("Area of rectangle 2: " + r2.area());
  }
}
```

Outpt:

```
Area of rectangle 1: 0
Area of rectangle 2: 15
```