```
Dev Patel
ICS 4U1
Mr. Cardoso
Wednesday, December 16, 2020
```

Homework - Section 6.2 (#1-2, 5ab, 6abc)

```
a) 4/5
     b) -9/-7
     c) 5/6
     d) -9/-12
     e) 13/20
     a) public void plusEquals(Fraction other) {
2
          this.num = this.num * other.den + other.num *this.den;
          this.den = this.den * other.den
       }
     b) public Fraction plus(Fraction f) {
          Fraction sum = new Fraction();
          sum.num = f.num * this.den + f.den * this.num;
          sum.den = f.den * this.den;
          return sum;
       }
     c) public void reduce() {
          int factor = 2;
          while(factor <= this.num && factor <= this.den){</pre>
                if(this.num%factor == 0 && this.den%factor == 0){
                     this.num = this.num / factor;
                     this.den = this.den / factor;
                     factor = 2;
                }
                else{
                     factor++;
                }
          }
       }
```

```
5
     a) public double area() {
          double area = Math.pi * Math.pow(this.r, 2);
          return area;
       }
     b) public Circle smaller(Circle other) {
          if(this.area <= other.area){</pre>
                return this;
          }
          else{
                return other;
          }
       }
6
     a) b) c)
     public static void main(String[] args){
          // a)
          Circle c1 = new Circle();
          Circle c2 = new Circle();
          c1.x = 4;
          c1.y = -1;
          c1.r = 3;
          c2.x = 3;
          c2.y = -2;
          c2.r = 5;
          // b)
          System.out.println(c1.area());
          // c)
          Circle smallest;
          smallest = c1.smaller(c2);
          System.out.println("("+smallest.x+", "+smallest.y+")");
          System.out.println("radius: " + smallest.r);
     }
```