CSE 142 Section Handout #3 Solutions

```
1. -2 + 4 = 7
   4 + -2 = 3
   2 + 11 = 5
```

2. Many a student in the computer of fred Many a computer in the department of major Many a department in the honor of fred Many a baz in the bar of foo

```
3. everywhere there had a old
   here macdonald had a there
   there quack had a everywhere
   farm duck had a here
   old macdonald had a farm
                               // Part (a) solution
4. import java.awt.*;
   public class SquaresA {
       public static void main(String[] args) {
           DrawingPanel p = new DrawingPanel(300, 200);
           p.setBackground(Color.CYAN);
           Graphics g = p.getGraphics();
           g.setColor(Color.RED);
           for (int i = 1; i <= 5; i++) {
                g.drawRect(50, 50, i * 20, i * 20);
           q.setColor(Color.BLACK);
           g.drawLine(50, 50, 150, 150);
       }
   }
   import java.awt.*;
                                // Part (c) solution (incorporates Part b)
   public class SquaresC {
       public static void main(String[] args) {
           DrawingPanel p = new DrawingPanel(400, 300);
           p.setBackground(Color.CYAN);
           Graphics g = p.getGraphics();
           drawFigure(g, 50, 50, 100);
           drawFigure(g, 250, 10, 50);
drawFigure(g, 180, 115, 180);
       }
       public static void drawFigure(Graphics g, int x, int y, int size) {
            g.setColor(Color.RED);
           for (int i = 1; i <= 5; i++) {
                g.drawRect(x, y, i * size / 5, i * size / 5);
           g.setColor(Color.BLACK);
           g.drawLine(x, y, x + size, y + size);
       }
   }
5. import java.awt.*;
   public class Triangle {
       public static void main(String[] args) {
           DrawingPanel p = new DrawingPanel(600, 200);
           p.setBackground(Color.YELLOW);
           Graphics g = p.getGraphics();
           g.setColor(Color.BLUE);
           g.drawLine(0, 0, 300, 200);
g.drawLine(300, 200, 600, 0);
           for (int i = 1; i <= 19; i++) {
                g.drawLine(15 * i, 10 * i, 600 - 15 * i, 10 * i);
       }
   }
```