



## CSE 142 Section Handout #2 Solutions (continued)

6.

```
public static void drawFigure() {
    for (int line = 1; line <= 5; line++) {
        for (int i = 1; i <= -4 * line + 20; i++) {
            System.out.print("/");
        }
        for (int i = 1; i <= 8 * line - 8; i++) {
            System.out.print("*");
        }
        for (int i = 1; i <= -4 * line + 20; i++) {
            System.out.print("\\");
        }
        System.out.println();
    }
}
```

7.

line value	constant SIZE value	Number of characters	Expression
1, 2, 3, 4, 5, 6, ...	1	4, 6, 8, 10, 12, 14, ...	$2 * \text{line} + 2$
1, 2, 3, 4, 5, 6, ...	2	6, 8, 10, 12, 14, 16, ...	$2 * \text{line} + 4$
1, 2, 3, 4, 5, 6, ...	SIZE	---	<b><math>2 * \text{line} + (2 * \text{SIZE})</math></b>
1, 2, 3, 4, 5, 6, ...	3	13, 17, 21, 25, 29, 33, ...	$4 * \text{line} + 9$
1, 2, 3, 4, 5, 6, ...	5	19, 23, 27, 31, 35, 39, ...	$4 * \text{line} + 15$
1, 2, 3, 4, 5, 6, ...	SIZE	---	<b><math>4 * \text{line} + (3 * \text{SIZE})</math></b>
1, 2, 3, 4, 5, 6, ...	4	10, 9, 8, 7, 6, 5, ...	$-1 * \text{line} + 11$
1, 2, 3, 4, 5, 6, ...	9	20, 19, 18, 17, 16, 15, ...	$-1 * \text{line} + 21$
1, 2, 3, 4, 5, 6, ...	SIZE	---	<b><math>-1 * \text{line} + (2 * \text{SIZE} + 3)</math></b>

8.

```
public static final int SIZE = 5;
...

public static void drawFigure() {
    for (int line = 1; line <= SIZE; line++) {
        for (int i = 1; i <= -4 * line + 4 * SIZE; i++) {
            System.out.print("/");
        }
        for (int i = 1; i <= 8 * line - 8; i++) {
            System.out.print("*");
        }
        for (int i = 1; i <= -4 * line + 4 * SIZE; i++) {
            System.out.print("\\");
        }
        System.out.println();
    }
}
```