Assignment 10

1. Write the following number in scientific notation.

- 1.234 \times 10^3
- 5.678 \times 10^{-2}
- 9.876 \times 10^4

2. Which of the following numbers has the smallest value?

- -3.45
- 0.007
- 5,678

3. Which of the following numbers has the largest value?

- 987,654
- 0.000007
- 123

4. Complete the following table by filling in the missing values.

<table>
<thead>
<tr>
<th>x</th>
<th>y</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

5. Which of the following points is on the line y = 2x?

- (1, 2)
- (2, 4)
- (3, 6)

6. Which of the following sequences is an arithmetic sequence?

- 2, 4, 8, 16, 32
- 3, 6, 9, 12, 15
- 1, 3, 6, 10, 15

7. Which of the following inequalities is true for all values of x?

- x > 5
- x < 5
- x = 5

8. Which of the following equations is linear?

- y = 2x + 3
- y^2 = x
- xy = 1

9. Which of the following shapes is a quadrilateral?

- Square
- Circle
- Triangle

10. Which of the following statements is true?

- All squares are rectangles.
- All rectangles are squares.
- All parallelograms are rectangles.