A.G.4: Families of Functions: Identify and graph linear, quadratic (parabolic), absolute value, and exponential functions

1 Which type of function is represented by the graph shown below?

1) absolute value
2) exponential
3) linear
4) quadratic

2 Which type of function is graphed below?

1) linear
2) quadratic
3) exponential
4) absolute value

3 Which type of graph is shown in the diagram below?

1) absolute value
2) exponential
3) linear
4) quadratic

4 Which equation represents a quadratic function?

1) \( y = x + 2 \)
2) \( y = |x + 2| \)
3) \( y = x^2 \)
4) \( y = 2^x \)
5 Which graph represents a linear function?

1) 

2) 

3) 

4) 

6 Which graph represents an exponential equation?

1) 

2) 

3) 

4)
7. Which graph represents an absolute value equation?

1)  

2)  

3)  

4)  

8. Antwaan leaves a cup of hot chocolate on the counter in his kitchen. Which graph is the best representation of the change in temperature of his hot chocolate over time?

1)  

2)  

3)  

4)
A.G.4: Families of Functions: Identify and graph linear, quadratic (parabolic), absolute value, and exponential functions

Answer Section

<table>
<thead>
<tr>
<th></th>
<th>ANS:</th>
<th>REF:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>061111ia</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>061318ia</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>fall0717ia</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>081118ia</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>060801ia</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>081025ia</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>061423is</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>010905ia</td>
</tr>
</tbody>
</table>