Routine Patterns and Graphs Practice #3

1. A house painter charges $300 plus $175 for each day’s work.

Complete the table below and graph the result to the right.

<table>
<thead>
<tr>
<th>Days</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>...</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost ($)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Below is the graph of another painter’s charges.

![Graph of another painter's charges]

a) How much do you get for $1000? ........................................

b) What is the daily charge? ........................................

c) Write an equation for the charge rate:

.................................................................

3. Draw the lines on the grid below:

a) \[ y = x + 6 \]

b) \[ y = \frac{1}{4}x + 2 \]

c) \[ y = 0 \]

d) \[ y = -4x - 2 \]

4. Write the equations for these lines:

a) ........................................

b) ........................................

c) ........................................

d) ........................................

1. A house painter charges $300 plus $175 for each day’s work.

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</tr>
</thead>
<tbody>
<tr>
<td>Cost ($)</td>
<td>475</td>
<td>650</td>
<td>825</td>
<td>1000</td>
<td></td>
<td>1700</td>
</tr>
</tbody>
</table>

2. Below is the graph of another painter’s charges.

   a) How much do you get for $1000? 4 days work
   b) What is the daily charge? $300 ÷ 2 days = $150 a day
   c) Write an equation for the charge rate:

      \[ \text{charge} = 300 + 150 \times \text{days} \]

      \[ \$ = 150D + 300 \]

3. Draw the lines on the grid below:
   a) \( y = x + 6 \)
   b) \( y = \frac{1}{4}x + 2 \)
   c) \( x = 0 \)
   d) \( y = -4x - 2 \)

4. Write the equations for these lines:
   a) \( y = -x \)
   b) \( y = 4x + 8 \)
   c) \( y = 5 \)
   d) \( y = \frac{1}{3}x - 5 \)