1. A taxi company charges $4 to pick up and $1.50 for each km. Complete the table below and graph the result to the right.

<table>
<thead>
<tr>
<th>km</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>8</th>
<th>10</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 taxi company’s charges.

   a) What is their pick-up charge? ........................................

   b) What is their per-kilometre charge? ..............................

   c) Write an equation for this company’s charges:

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

3. Draw the lines on the grid below:
   a) \( y = 3x \)
   b) \( y = -\frac{1}{2}x + 4 \)
   c) \( y = 7 \)
   d) \( y = \frac{1}{4}x - 2 \)

4. Write the equations for these lines:
   a) ........................................
   b) ........................................
   c) ........................................
   d) ........................................
Answers: Routine Patterns and Graphs Practice #1

1. A taxi company charges $4 to pick up and $1.50 for each km.

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

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<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost ($)</td>
<td>5.50</td>
<td>7</td>
<td>8.50</td>
<td>10</td>
<td>16</td>
<td>19</td>
</tr>
</tbody>
</table>

2. Below is the graph of another taxi company’s charges.

a) What is their pick-up charge? $8
b) What is their per-kilometre charge? $8 ÷ 4km = $2/km
c) Write an equation for this company’s charges: charge = 2 × km + 8
   ( $ = 2k + 8 )

3. Draw the lines on the grid below:

   a) $y = 3x$
   b) $y = -\frac{1}{2}x + 4$
   c) $y = 7$
   d) $y = \frac{1}{4}x - 2$

4. Write the equations for these lines:

   a) $y = x - 5$
   b) $y = \frac{1}{2}x + 6$
   c) $x = -5$
   d) $y = -3x - 4$