Pulleys Quiz

1. What is a pulley?

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

2. Fill in the table below by naming the type of pulley shown and by using an “x” or a “✓” to indicate correct/incorrect information.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Type of Pulley</th>
<th>You need less effort when you use this pulley.</th>
<th>You can change direction with this pulley.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Pulley Diagram 1" /></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image2.jpg" alt="Pulley Diagram 2" /></td>
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</tr>
</tbody>
</table>

3. What do you call it when pulleys are combined?

____________________________________________________________________________________

4. Name three examples of things that use pulleys.

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
5. Please label the diagram.

6. If a pulley system has a mechanical advantage of 4, what does that mean?

7. Below you will find a comic that I found on the internet. There is something scientifically wrong with it. Please explain what is wrong, relating to pulleys, about this comic.