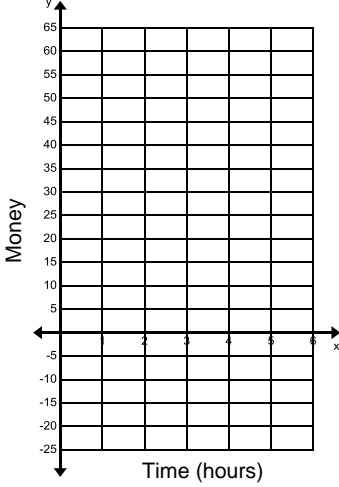


Self-Check #12 – Evaluating Functions

Directions: In each of the following problems, you are given one of the representations of linear function. Complete the representations and answer the questions.

<p><u>Context</u></p>	<p><u>Table</u></p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">hours</th> <th style="padding: 5px;">money</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">-5</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;">15</td> </tr> <tr> <td style="padding: 5px;">4</td> <td style="padding: 5px;">25</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </tbody> </table>	hours	money	1	-5	2			15	4	25			<p><u>Questions</u></p> <p>a) discrete or continuous</p> <p>b) domain</p> <p>c) range</p> <p>d) What is the value at $f(8)$?</p> <p>e) What is the value at $f(12)$?</p> <p>f) What x-value makes $f(x) = 175$ true?</p>
hours	money													
1	-5													
2														
	15													
4	25													
<p><u>Graph</u></p> 	<p><u>Rate of Change:</u></p> <p><u>Start Point (y-intercept):</u></p> <p><u>Equation:</u></p>													

2.

<p><u>Context</u></p> <p>You and your friends go to the rock climbing. It costs \$10 to get in and \$2 each session.</p>	<p><u>Table</u></p> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>																	<p><u>Questions</u></p> <p>a) discrete or continuous</p> <p>b) domain</p> <p>c) range</p> <p>d) What is the value at $f(10)$?</p>
<p><u>Graph</u></p>	<p><u>Rate of Change (Slope):</u></p> <p><u>Start Point (y-intercept):</u></p> <p><u>Equation:</u></p>	<p>e) What is the value at $f(15)$?</p> <p>f) What x-value makes $f(x) = 40$ true?</p>																

3

<p><u>Context</u></p>	<p><u>Table</u></p> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; height: 20px;"></td><td style="width: 50%; height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>																	<p><u>Questions</u></p> <p>a) discrete or continuous</p> <p>b) domain</p> <p>c) range</p> <p>d) What is the value at $f(7)$?</p>
<p><u>Graph</u></p>	<p><u>Rate of Change:</u></p> <p><u>Start Point (y-intercept):</u></p> <p><u>Equation:</u> $f(x) = -3x + 30$</p>	<p>e) What is the value at $f(10)$?</p> <p>f) What x-value makes $f(x) = 9$ true?</p>																