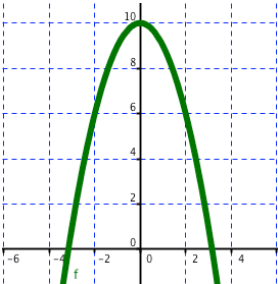


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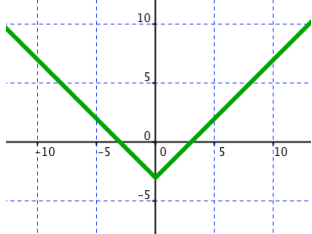
Are They Linear?

Check all the examples showing linear relationships. For each example, explain your reasoning or show how you know it is a linear relationship or not a linear relationship.

No.	Example	Explain your reasoning and show how you know										
1.	<input type="checkbox"/> $6x + 3y + 2 = -3y + 2x + 5$											
2.	<input type="checkbox"/> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">x</th> <th style="border-bottom: 1px solid black; padding: 5px;">y</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black; padding: 5px;">1</td> <td style="padding: 5px;">7</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">2</td> <td style="padding: 5px;">14</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">3</td> <td style="padding: 5px;">21</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">4</td> <td style="padding: 5px;">28</td> </tr> </tbody> </table>	x	y	1	7	2	14	3	21	4	28	
x	y											
1	7											
2	14											
3	21											
4	28											
3.	<input type="checkbox"/> 											
4.	<input type="checkbox"/> $-y = x - 9$											
5.	<input type="checkbox"/> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;">x</th> <th style="border-bottom: 1px solid black; padding: 5px;">y</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black; padding: 5px;">2</td> <td style="padding: 5px;">4</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">6</td> <td style="padding: 5px;">12</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">9</td> <td style="padding: 5px;">18</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">14</td> <td style="padding: 5px;">28</td> </tr> </tbody> </table>	x	y	2	4	6	12	9	18	14	28	
x	y											
2	4											
6	12											
9	18											
14	28											

Name: _____

Class/Block: _____ Date: _____

No.	Example	Explain your reasoning and show how you know										
6.	<input type="checkbox"/> $x = 4y - 8$											
7.	<input type="checkbox"/> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">x</td> <td style="padding: 0 5px;">y</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">1</td> <td style="padding: 0 5px;">2</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">3</td> <td style="padding: 0 5px;">4</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">6</td> <td style="padding: 0 5px;">6</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 0 5px;">9</td> <td style="padding: 0 5px;">8</td> </tr> </table>	x	y	1	2	3	4	6	6	9	8	
x	y											
1	2											
3	4											
6	6											
9	8											
8.	<input type="checkbox"/> 											
9.	<input type="checkbox"/> $x \cdot y = 4x^2 + 5x$											
10.	<input type="checkbox"/> 