

Is it a Function?

Only if...

Every x-value is assigned to ONLY ONE y-value.

	YES	NO																																																
Tables	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-3</td><td>8</td></tr> <tr><td>-1</td><td>4</td></tr> <tr><td>0</td><td>6</td></tr> <tr><td>5</td><td>16</td></tr> <tr><td>9</td><td>24</td></tr> </tbody> </table> <table border="1" style="display: inline-table;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>-2</td><td>8</td></tr> <tr><td>-1</td><td>5</td></tr> <tr><td>0</td><td>4</td></tr> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>8</td></tr> </tbody> </table> <p>A <u>y-value</u> CAN be the result of 2 different x-values.</p>	x	y	-3	8	-1	4	0	6	5	16	9	24	x	y	-2	8	-1	5	0	4	1	5	2	8	<table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>7</td></tr> <tr><td>3</td><td>8</td></tr> <tr><td>3</td><td>9</td></tr> <tr><td>5</td><td>11</td></tr> </tbody> </table> <table border="1" style="display: inline-table;"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>2</td><td>5</td></tr> <tr><td>5</td><td>7</td></tr> <tr><td>-4</td><td>8</td></tr> <tr><td>2</td><td>9</td></tr> <tr><td>10</td><td>11</td></tr> </tbody> </table> <p>x-values CANNOT be assigned to multiple y-values.</p>	x	y	1	5	2	7	3	8	3	9	5	11	x	y	2	5	5	7	-4	8	2	9	10	11
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	<p>Move a VERTICAL LINE across a graph to check that it only crosses the graph <u>once</u>. REMEMBER: Every point on a vertical line has the same x-value</p>																																																	
Data Points	<p>$\{(-3, 8), (-1, 4), (0, 6), (5, 16), (9, 24)\}$</p> <p>$\{(-2, 8), (-1, 5), (0, 4), (1, 5), (2, 8)\}$</p>	<p>$\{(1, 5), (2, 7), \underline{(3, 8)}, \underline{(3, 9)}, (5, 11)\}$</p> <p>$\{\underline{(2, 5)}, (5, 7), (-4, 8), \underline{(2, 9)}, (10, 11)\}$</p>																																																
Diagram																																																		