

Algebra

A098-Writing a Function Rule

Write the function rule for each table of values.

<p>1.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>-5</td></tr><tr><td>-2</td><td>-3</td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>3</td></tr></tbody></table> <p>A) $y = x + 1$ B) $y = 2x + 1$ C) $y = 3x - 1$ D) $y = 4x - 2$</p>	x	y	-3	-5	-2	-3	-1	-1	0	1	1	3	<p>2.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-1</td><td>-4</td></tr><tr><td>0</td><td>-3</td></tr><tr><td>1</td><td>-2</td></tr><tr><td>2</td><td>-1</td></tr><tr><td>3</td><td>0</td></tr></tbody></table> <p>A) $y = x + 1$ B) $y = x - 1$ C) $y = x - 3$ D) $y = x - 2$</p>	x	y	-1	-4	0	-3	1	-2	2	-1	3	0	<p>3.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>-15</td></tr><tr><td>-2</td><td>-11</td></tr><tr><td>-1</td><td>-7</td></tr><tr><td>0</td><td>-3</td></tr><tr><td>1</td><td>1</td></tr></tbody></table> <p>A) $y = 2x + 7$ B) $y = 5x - 2$ C) $y = 4x - 3$ D) $y = 5x$</p>	x	y	-3	-15	-2	-11	-1	-7	0	-3	1	1	<p>4.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>11</td></tr><tr><td>-2</td><td>8</td></tr><tr><td>-1</td><td>5</td></tr><tr><td>0</td><td>2</td></tr><tr><td>1</td><td>-1</td></tr></tbody></table> <p>A) $y = 2x - 7$ B) $y = -3x + 2$ C) $y = 4x - 15$ D) $y = -2x + 16$</p>	x	y	-3	11	-2	8	-1	5	0	2	1	-1
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<p>5.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>27</td></tr><tr><td>-2</td><td>20</td></tr><tr><td>-1</td><td>13</td></tr><tr><td>0</td><td>6</td></tr><tr><td>1</td><td>-1</td></tr></tbody></table> <p>A) $y = -7x + 6$ B) $y = -3x - 5$ C) $y = 7x - 21$ D) $y = 5x - 16$</p>	x	y	-3	27	-2	20	-1	13	0	6	1	-1	<p>6.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>6</td></tr><tr><td>-2</td><td>4</td></tr><tr><td>-1</td><td>2</td></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>-2</td></tr></tbody></table> <p>A) $y = -3x + 1$ B) $y = -2x$ C) $y = 2x - 1$ D) $y = 7x + 2$</p>	x	y	-3	6	-2	4	-1	2	0	0	1	-2	<p>7.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>-9</td></tr><tr><td>-2</td><td>-6</td></tr><tr><td>-1</td><td>-3</td></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>3</td></tr></tbody></table> <p>A) $y = x - 3$ B) $y = 3x$ C) $y = \frac{x}{3}$ D) $y = 3x + 1$</p>	x	y	-3	-9	-2	-6	-1	-3	0	0	1	3	<p>8.</p> <table border="1"><thead><tr><th>x</th><th>y</th></tr></thead><tbody><tr><td>-3</td><td>-5</td></tr><tr><td>-2</td><td>-3</td></tr><tr><td>-1</td><td>-1</td></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>3</td></tr></tbody></table> <p>A) $y = 3x + 2$ B) $y = x + 2$ C) $y = \frac{x}{2} + 1$ D) $y = 2x + 1$</p>	x	y	-3	-5	-2	-3	-1	-1	0	1	1	3
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<p>9. A resort charges \$20 a day to rent a boat. However the customers must pay a \$99 initiation fee to start renting. Write a function for the total cost to rent a boat for “d” days.</p> <p>A) $f(d) = d + 99$ B) $f(d) = 99d + 20$ C) $f(d) = 20d + 99$ D) $f(d) = 20d - 99$</p>	<p>10. Bob wants to buy pineapples (represented by x) which are 25 cents each and bananas (represented by y) which are 50 cents each. Write a function that represents the total cost “c” for buying bananas and pineapples.</p> <p>A) $c = .25x + .5y$ B) $c = .25x - .5y$ C) $c = (.25x)(.5y)$ D) $c = \frac{.25x}{.5y}$</p>																																																		