

| Linear Patterns | Exponential Patterns | Quadratic Patterns | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|--------------------|---|---|---|---|---|----|---|----|---|----|---|---|---|---|---|---|----|---|----|---|-----|---|-----|---|---|---|---|---|---|---|---|---|---|----|---|----|
| <table border="1" data-bbox="284 1575 495 1690"> <tr><th>x</th><th>y</th></tr> <tr><td>0</td><td>5</td></tr> <tr><td>1</td><td>8</td></tr> <tr><td>2</td><td>11</td></tr> <tr><td>3</td><td>14</td></tr> <tr><td>4</td><td>17</td></tr> </table> <p data-bbox="576 1659 609 1942">Describe the pattern.</p> <p data-bbox="755 1596 787 1942">All linear patterns have a _____</p> <p>_____</p> <p>_____</p> | x | y | 0 | 5 | 1 | 8 | 2 | 11 | 3 | 14 | 4 | 17 | <table border="1" data-bbox="267 955 479 1081"> <tr><th>x</th><th>y</th></tr> <tr><td>0</td><td>5</td></tr> <tr><td>1</td><td>15</td></tr> <tr><td>2</td><td>45</td></tr> <tr><td>3</td><td>135</td></tr> <tr><td>4</td><td>405</td></tr> </table> <p data-bbox="560 1050 592 1333">Describe the pattern.</p> <p data-bbox="738 913 771 1333">All exponential patterns have a _____</p> <p>_____</p> <p>_____</p> | x | y | 0 | 5 | 1 | 15 | 2 | 45 | 3 | 135 | 4 | 405 | <table border="1" data-bbox="251 378 462 483"> <tr><th>x</th><th>y</th></tr> <tr><td>0</td><td>1</td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>5</td></tr> <tr><td>3</td><td>10</td></tr> <tr><td>4</td><td>17</td></tr> </table> <p data-bbox="544 451 576 735">Describe the pattern.</p> <p data-bbox="722 346 755 735">All quadratic patterns have a _____</p> <p>_____</p> <p>_____</p> | x | y | 0 | 1 | 1 | 2 | 2 | 5 | 3 | 10 | 4 | 17 |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 405 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p data-bbox="1006 304 1039 1942">Correlation Coefficient: measures how well the relationship between two variables can be described by a function</p> <p data-bbox="1071 199 1112 1942">To turn on the correlation coefficient: press 2nd 0, press D (x^{-1}), scroll down to "Diagnostic On" and press enter twice.</p> <p data-bbox="1177 283 1274 1942">What to look for: (with diagnostic on) when you do any regression line you want $r^2 = 1$, this means a perfect fit of the function you chose to the data.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |