

Patterns of Change in Two Variables

<table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>3</td><td></td></tr> <tr><td>10</td><td></td></tr> </tbody> </table>	x	y	0	0	1	1	2	2	3		10		<p>1) What is the pattern of change in the y-variables?                  2) Graph the relationship.                  3) What type of relationship exists between x and y?                  4) Give an equation to describe the relationship between x and y.                  5) Give the x and y intercepts.                  6) Complete the table.</p>	<table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>0</td><td></td></tr> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>6</td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>10</td><td></td></tr> </tbody> </table>	x	y	0		1	2	2	4	3	6	4		5		10		<p>7) What is the pattern of change in the y-variables?                  8) Graph the relationship.                  9) What type of relationship exists between x and y?                  10) Give an equation to describe the relationship between x and y.                  11) Give the x and y intercepts.                  12) Complete the table.</p>				
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1	-2																																		
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3																																			
5																																			
8																																			
x	y																																		
-3																																			
-2	-7																																		
-1	-4																																		
0	-1																																		
1	2																																		
6																																			
10																																			

x	y
-1	.67
0	1
1	1.5
2	2.25
3	3.375
4	
7	

- 61) What is the pattern of change in the y-variables?  
 62) Graph the relationship.  
 63) What type of relationship exists between x and y?  
 64) Give an equation to describe the relationship between x and y.  
 65) Give the x and y intercepts.  
 66) Complete the table.

x	y
-2	2
-1	1
0	0
1	1
2	2
5	
11	

- 67) What is the pattern of change in the y-variables?  
 68) Graph the relationship.  
 69) What type of relationship exists between x and y?  
 70) Give an equation to describe the relationship between x and y.  
 71) Give the x and y intercepts.  
 72) Complete the table.

x	y
-1	
0	1
1	2.5
2	6.25
3	15.63
	39.06
13	

- 73) What is the pattern of change in the y-variables?  
 74) Graph the relationship.  
 75) What type of relationship exists between x and y?  
 76) Give an equation to describe the relationship between x and y.  
 77) Give the x and y intercepts.  
 78) Complete the table.

x	y
-3	
-2	3
-1	2
0	1
1	2
6	
14	

- 79) What is the pattern of change in the y-variables?  
 80) Graph the relationship.  
 81) What type of relationship exists between x and y?  
 82) Give an equation to describe the relationship between x and y.  
 83) Give the x and y intercepts.  
 84) Complete the table.

x	y
-2	4
-1	3
0	2
1	3
2	4
6	
15	

- 85) What is the pattern of change in the y-variables?  
 86) Graph the relationship.  
 87) What type of relationship exists between x and y?  
 88) Give an equation to describe the relationship between x and y.  
 89) Give the x and y intercepts.  
 90) Complete the table.

x	y
-2	
-1	2
0	0
1	2
2	4
3	6
10	

- 91) What is the pattern of change in the y-variables?  
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x	y
-2	
-1	-1
0	1
1	3
2	5
	17
27	

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 101) Give the x and y intercepts.  
 102) Complete the table.

x	y
0	2
1	3
2	5
3	9
4	17
	129

- 103) What is the pattern of change in the y-variables?  
 104) Graph the relationship.  
 105) What type of relationship exists between x and y?  
 106) Give an equation to describe the relationship between x and y.  
 107) Give the x and y intercepts.  
 108) Complete the table.

x	y
0	2
1	4
2	10
3	28
4	
	730

- 109) What is the pattern of change in the y-variables?  
 110) Graph the relationship.  
 111) What type of relationship exists between x and y?  
 112) Give an equation to describe the relationship between x and y.  
 113) Give the x and y intercepts.  
 114) Complete the table.

x	y
0	0
1	1
2	4
3	9
4	16
6	
11	

- 115) What is the pattern of change in the y-variables?  
 116) Graph the relationship.  
 117) What type of relationship exists between x and y?  
 118) Give an equation to describe the relationship between x and y.  
 119) Give the x and y intercepts.  
 120) Complete the table.

x	y
0	1
1	2
2	5
3	10
4	17
8	
	170

- 121) What is the pattern of change in the y-variables?  
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 123) What type of relationship exists between x and y?  
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x	y
0	3
1	4
2	6
3	10
4	18
14	

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 132) Complete the table.

x	y
-2	4
-1	1
0	0
1	1
2	4
3	9
5	

- 133) What is the pattern of change in the y-variables?  
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 137) Give the x and y intercepts.  
 138) Complete the table.

x	y
0	-2
1	-1
2	2
3	7
4	14
5	
	98

- 139) What is the pattern of change in the y-variables?  
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 144) Complete the table.

x	y
0	2
1	4
2	8
3	16
4	
9	

- 145) What is the pattern of change in the y-variables?  
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x	y
-3	
-2	-7
-1	-4
0	-1
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10	

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 156) Complete the table.

x	y
-1	
0	2
1	6
2	18
3	54
4	
12	

- 157) What is the pattern of change in the y-variables?  
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 161) Give the x and y intercepts.  
 162) Complete the table.

x	y
-2	-2
-1	-1
0	0
1	-1
2	-2
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11	

- 163) What is the pattern of change in the y-variables?  
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 166) Give an equation to describe the relationship between x and y.  
 167) Give the x and y intercepts.  
 168) Complete the table.

x	y
-3	
-2	-4
-1	-1
0	0
1	-1
3	-9
	-49

- 169) What is the pattern of change in the y-variables?  
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 172) Give an equation to describe the relationship between x and y.  
 173) Give the x and y intercepts.  
 174) Complete the table.

x	y
-2	
-1	-3
0	-4
1	-3
2	0
3	5
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- 175) What is the pattern of change in the y-variables?  
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