

Linear Patterns

Grades 6-8 • Recognizing linear relationships and finding equations

Name: _____

Date: _____

1. If $y = 2x + 2$, what is y when $x = 3$?

Answer: _____

2. If $y = 1x + 2$, what is y when $x = 0$?

Answer: _____

3. If $y = 0.5x + 1$, what is y when $x = -2$?

Answer: _____

4. What is the pattern in these points? $(-2, -2.0)$, $(-1, -1.5)$, $(0, -1.0)$, $(1, -0.5)$, $(2, 0.0)$

Answer: _____

5. If $y = 2x + -1$, what is y when $x = -2$?

Answer: _____

6. What is the pattern in these points? $(-2, 1.0)$, $(-1, 1.5)$, $(0, 2.0)$, $(1, 2.5)$, $(2, 3.0)$

Answer: _____

7. If $y = 0.5x + 2$, what is y when $x = -1$?

Answer: _____

8. What is the pattern in these points? $(-2, -4)$, $(-1, -2)$, $(0, 0)$, $(1, 2)$, $(2, 4)$

Answer: _____

9. What is the pattern in these points? $(-2, 4)$, $(-1, 3)$, $(0, 2)$, $(1, 1)$, $(2, 0)$

Answer: _____

10. What is the pattern in these points? $(-2, -4)$, $(-1, -2)$, $(0, 0)$, $(1, 2)$, $(2, 4)$

Answer: _____

Answer Key

1.	If $y = 2x + 2$, what is y when $x = 3$?	8
2.	If $y = 1x + 2$, what is y when $x = 0$?	2
3.	If $y = 0.5x + 1$, what is y when $x = -2$?	0.0
4.	What is the pattern in these points? $(-2, -2.0)$, $(-1, -1.5)$, $(0, -1.0)$, $(1, -0.5)$, $(2, 0.0)$	$y = 0.5x - 1$
5.	If $y = 2x + -1$, what is y when $x = -2$?	-5
6.	What is the pattern in these points? $(-2, 1.0)$, $(-1, 1.5)$, $(0, 2.0)$, $(1, 2.5)$, $(2, 3.0)$	$y = 0.5x + 2$
7.	If $y = 0.5x + 2$, what is y when $x = -1$?	1.5
8.	What is the pattern in these points? $(-2, -4)$, $(-1, -2)$, $(0, 0)$, $(1, 2)$, $(2, 4)$	$y = 2x$
9.	What is the pattern in these points? $(-2, 4)$, $(-1, 3)$, $(0, 2)$, $(1, 1)$, $(2, 0)$	$y = -x + 2$
10.	What is the pattern in these points? $(-2, -4)$, $(-1, -2)$, $(0, 0)$, $(1, 2)$, $(2, 4)$	$y = 2x$