GRADE 8 MATH · HOMEWORK · SPECIAL ED

Compare Two Linear Functions

SCORE / 25

01 Part A · Practice

To compare linear functions, find each rate of change and initial value, whatever the representation.

1 ●○○

Find the rate of change and the initial value of the linear function.

HINT Rate = change in y ÷ change in x. Then work back to x = 0.

x	0	1	2	3
y	9	14	19	24

2 ●○○

A is in the table. B is $y = 3x + 7$. Which has the greater rate of change?

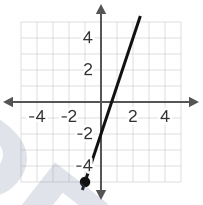
HINT For the table, divide the change in y by the change in x.

x	0	1	2	3
y	2	7	12	17

3 ●○○

A is graphed. B is $y = -x + 2$. Which has the greater rate of change?

HINT Find two points on the line and compute rise over run.



4 ●○○

A: $y = 4x + 5$. B starts at 3 and rises 1 per unit of x. Greater initial value?

HINT The starting value is b; the change for each 1 is m.

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Preview - the full worksheet and its answer key are at primeworksheet.com