Algebra 1 3.6 y = kx

Write an equation for a proportional relationship Write an equation for a nonproportional relationship

linear slope

K constant of variation

y-intercept

directly proportional

proportional

nonproportional whiteboards(?)

y= mx+B

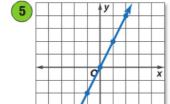
Quiz 3.4-3.5-3.6 is

Mon.

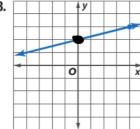
## KeyConcept Proportional Relationship

Words

A relationship is proportional if its equation is of the form y = kx,  $k \neq 0$ . The graph passes through (0, 0).







**Nonproportional Relationships** Some linear equations can represent a nonproportional relationship. If the ratio of the value of x to the value of y is different for select ordered pairs that are on the line, the equation is nonproportional and the graph will not pass through (0, 0).

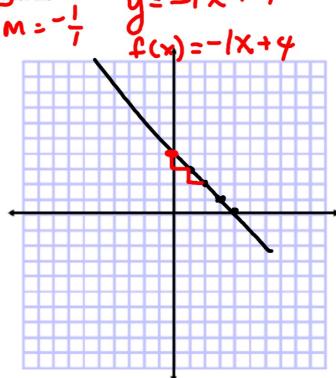
**2.** Write an equation in function notation for the relation shown in the table.

4

0

A. x 1 2 3 y 3 2 1

13210



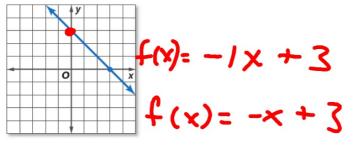
## Whiteboards

**B.** Write an equation in function notation for the graph.

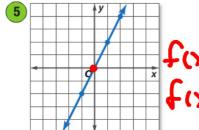
f(x) = 2x - 4 f(x) = 2x + -4

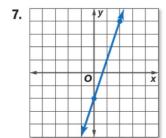
Write an equation in function notation

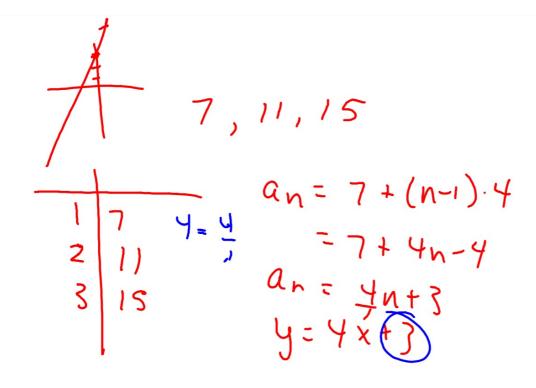
f(x) = |x - 5|f(x) = |x + -5|= |x + -5|



Write an equation in function notation







WB prac.