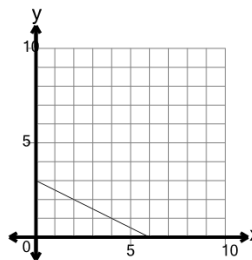# mobius

Math worksheet on *'Slope of a Line - Select Linear Equation Based on Slope and Y Intercept (Level 4)'*. Part of a broader unit on *'Line Equations and Graphing - Practice'*
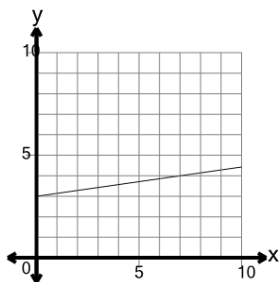
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1 Select the equation that would result in the line shown with a y-intercept of 3 and a slope of -0.5
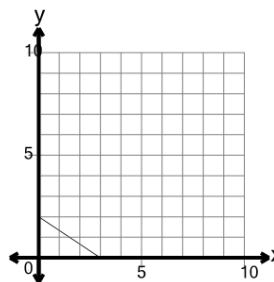

a	b
$y = -3x + 0.5$	$y = 0.5x + 3$
c	**d**
$y = -2x + 4.5$	$y = -0.5x + 3$
e	**f**
$y = -2.5x + 4.5$	$y = 4.5$

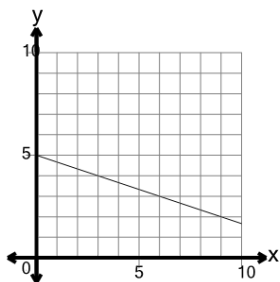**2** Select the equation that would result in the line shown with a y-intercept of 3 and a slope of 0.14

a	$y = -1.86x + 1.5$
b	$y = -2.36x + 1.5$
c	$y = -1.86x + 3$
d	$y = 0.14x + 3$
e	$y = 0.64x + 1.5$
f	$y = -0.86x + 4.5$

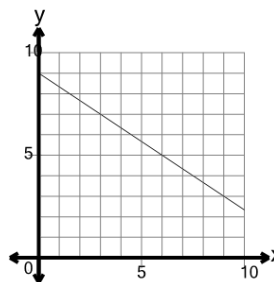**3** Select the equation that would result in the line shown with a y-intercept of 2 and a slope of -0.67

a	$y = -1.67x + 2$
b	$y = -0.17x + 0.5$
c	$y = 0.83x + 2$
d	$y = 1.33x + 3.5$
e	$y = -1.67x + 3.5$
f	$y = -0.67x + 2$

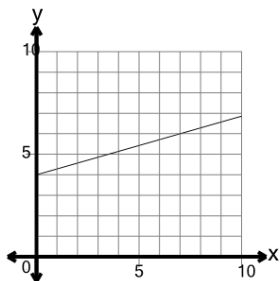**4** Select the equation that would result in the line shown with a y-intercept of 5 and a slope of -0.33

a	$y = 0.33x + 5$
b	$y = -5x + 0.33$
c	$y = 0.67x + 6.5$
d	$y = -1.83x + 6.5$
e	$y = -0.33x + 5$
f	$y = 1.17x + 6.5$

5 Select the equation that would result in the line shown with a y-intercept of 9 and a slope of -0.67
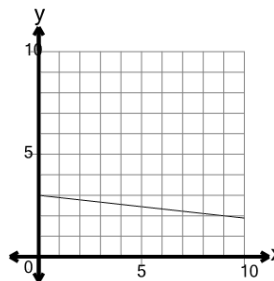

a	$y = -2.67x + 7.5$
b	$y = -1.67x + 9$
c	$y = -1.67x + 10.5$
d	$y = -3.17x + 7.5$
e	$y = -9x + 0.67$
f	$y = -0.67x + 9$

6 Select the equation that would result in the line shown with a y-intercept of 4 and a slope of 0.29

a	$y = 1.79x + 2.5$
b	$y = -1.71x + 2.5$
c	$y = -4x - 0.29$
d	$y = -1.21x + 4$
e	$y = -1.71x + 4$
f	$y = 0.29x + 4$

7 Select the equation that would result in the line shown with a y-intercept of 3 and a slope of -0.11

a	$y = -3x + 0.11$
b	$y = -0.11x + 4.5$
c	$y = -0.11x + 3$
d	$y = -2.61x + 4.5$
e	$y = -2.11x + 1.5$
f	$y = -1.61x + 4.5$