

Day 8 - Creating an Equation from a Graph & Table - Notes

What pieces of information do you need to write the equation of a line?

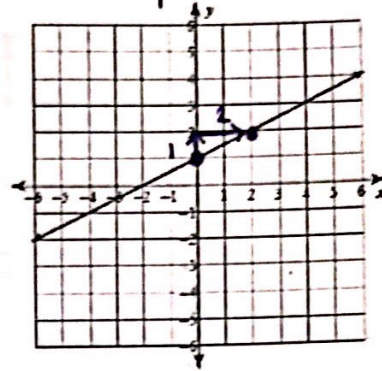
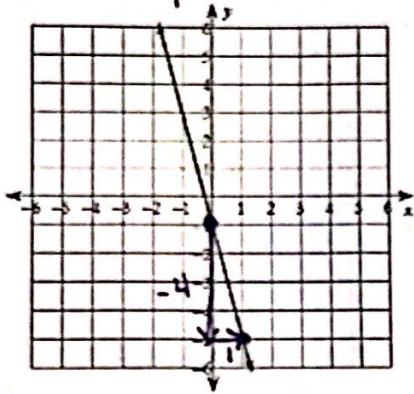
Slope & y-int

a. $m = -4$ $b = (0, -1)$

b. $m = \frac{1}{2}$ $b = (0, 1)$

Equation: $y = -4x - 1$

Equation: $y = \frac{1}{2}x + 1$

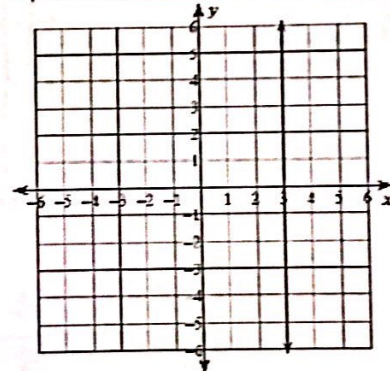
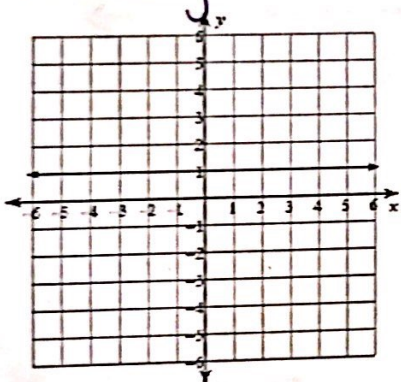


c. $m = 0$ $b = (0, 1)$

d. $m = \text{und}$ $b = \text{none}$

Equation: $y = 1$

Equation: $x = 3$



e. $m = -\frac{1}{2}$ $b = (0, 4)$

f. $m = -2$ $b = (0, 8)$

Equation: $y = -\frac{1}{2}x + 4$

Equation: $y = -2x + 8$

x	0	2	6	8
y	4	3	1	0

Annotations: An arrow from x=0 to x=2 is labeled '+2'. An arrow from y=4 to y=3 is labeled '-1'.

x	0	1	3	4
y	8	6	2	0

Annotations: An arrow from x=0 to x=1 is labeled '+1'. An arrow from y=8 to y=6 is labeled '-2'.