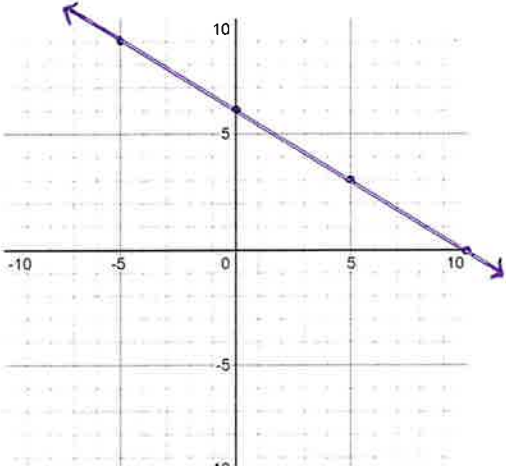
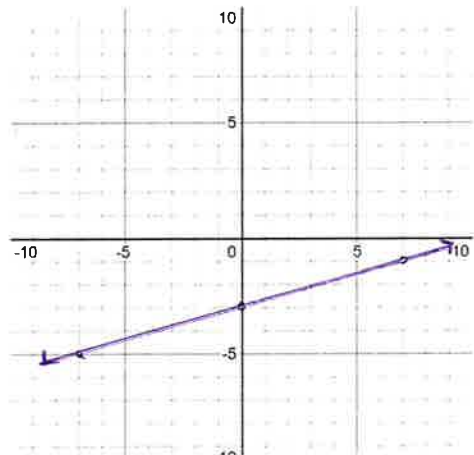
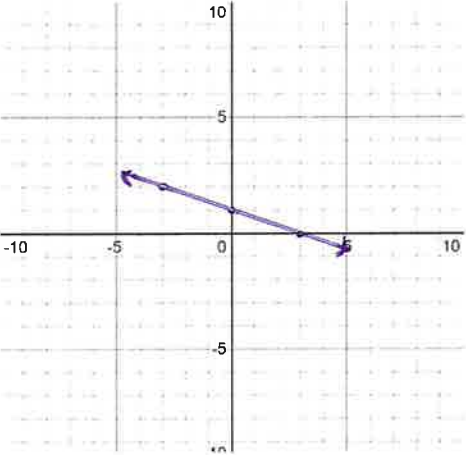
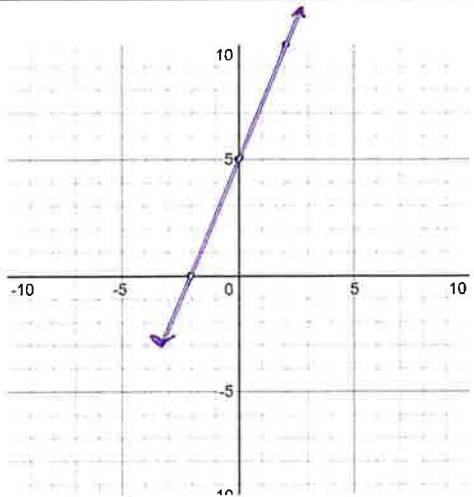


Name: **KEY**

Section 2.2a – Graphing Linear Equations – Proficiency Check

Graph the following equations

EMERGING

 <p style="margin-top: 10px;"> $y = -\frac{3}{5}x + 6$ </p>	 <p style="margin-top: 10px;"> $y = \frac{2}{7}x - 3$ </p>																								
$2x + 6y = 6$	$5x - 2y = -10$																								
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">x</td> <td style="width: 15%;">0</td> <td style="width: 15%;">3</td> <td style="width: 15%;">-3</td> <td style="width: 15%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>y</td> <td>1</td> <td>0</td> <td>2</td> <td></td> <td></td> </tr> </table>	x	0	3	-3			y	1	0	2			<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">x</td> <td style="width: 15%;">0</td> <td style="width: 15%;">-2</td> <td style="width: 15%;">2</td> <td style="width: 15%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>y</td> <td>5</td> <td>0</td> <td>10</td> <td></td> <td></td> </tr> </table>	x	0	-2	2			y	5	0	10		
x	0	3	-3																						
y	1	0	2																						
x	0	-2	2																						
y	5	0	10																						
																									

What is the slope of the line that connects the given points.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

(4, 7) and (-3, 9)
 pt 1 pt 2

$$\frac{9-7}{-3-4} = \frac{2}{-7}$$

$$\boxed{-\frac{2}{7}}$$

(2, 5) and (-3, 5)
 pt 1 pt 2

$$\frac{5-5}{-3-2} = \frac{0}{-5}$$

$$\boxed{0}$$

(4, -3) and (4, 9)
 pt 1 pt 2

$$\frac{9-(-3)}{4-4} = \frac{12}{0}$$

$$\boxed{\text{undefined}}$$

PROFICIENT

Graph the following equation

$$\left(\frac{x}{3} - \frac{5}{3}y = 2 \right)^{\times 3}$$

$$x - 5y = 6$$

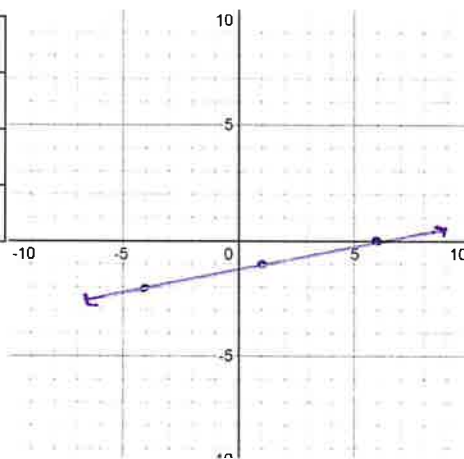
↑
 find slope convert to $y = mx + b$

$$-5y = -x + 6$$

$$y = \boxed{\frac{1}{5}}x - \frac{6}{5}$$

Let not use this →

x	y
6	0
0	$-\frac{6}{5}$



EXTENDING

Graph the following equation

$$2x - 3y = 4$$

↓
 convert to slope-intercept

$$-3y = -2x + 4$$

$$y = \boxed{\frac{2}{3}}x - \frac{4}{3}$$

slope

x	y
0	$-\frac{4}{3}$
2	0

