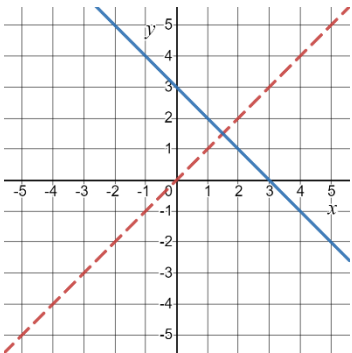
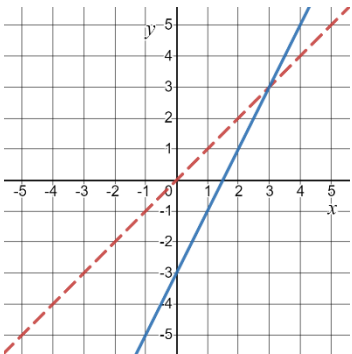
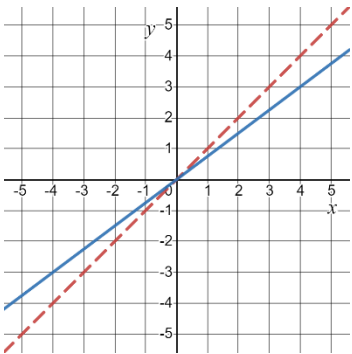
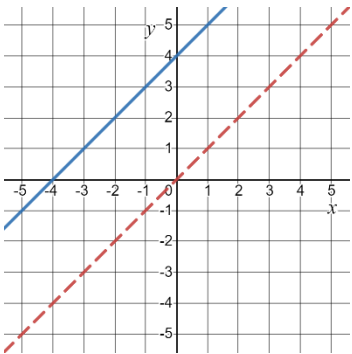


Working with Transformations Worksheet

Complete the following table. Check your graphs by using DESMOS!

Equation	a -value	b -value	Transformations	Sketch
$y = -x + 3$	-1	3	<ul style="list-style-type: none"> • Reflection across the x-axis • Vertical translation 3 units up 	
$y = 2x - 3$	2	-3	<ul style="list-style-type: none"> • Vertical stretch by a factor of 2 • Vertical translation 3 units down 	
$y = 0.75x$	0.75	0	<ul style="list-style-type: none"> • Vertical compression by a factor of 0.75 	
$y = x + 4$	1	4	<ul style="list-style-type: none"> • Vertical translation 4 units up 	

Equation	a -value	b -value	Transformations	Sketch
$y = -x - 3$	-1	-3	<ul style="list-style-type: none"> • Reflection across the x-axis • Vertical translation 3 units down 	
$y = 0.5x + 2$	0.5	2	<ul style="list-style-type: none"> • Vertical compression by a factor of 0.5 • Vertical translation 2 units up 	
$y = -x - 2$	-1	-2	<ul style="list-style-type: none"> • Reflection across the x-axis • Vertical translation 2 units down 	
$y = -0.25x$	-0.25	0	<ul style="list-style-type: none"> • Reflection across the x-axis • Vertical compression by a factor of 0.25 	