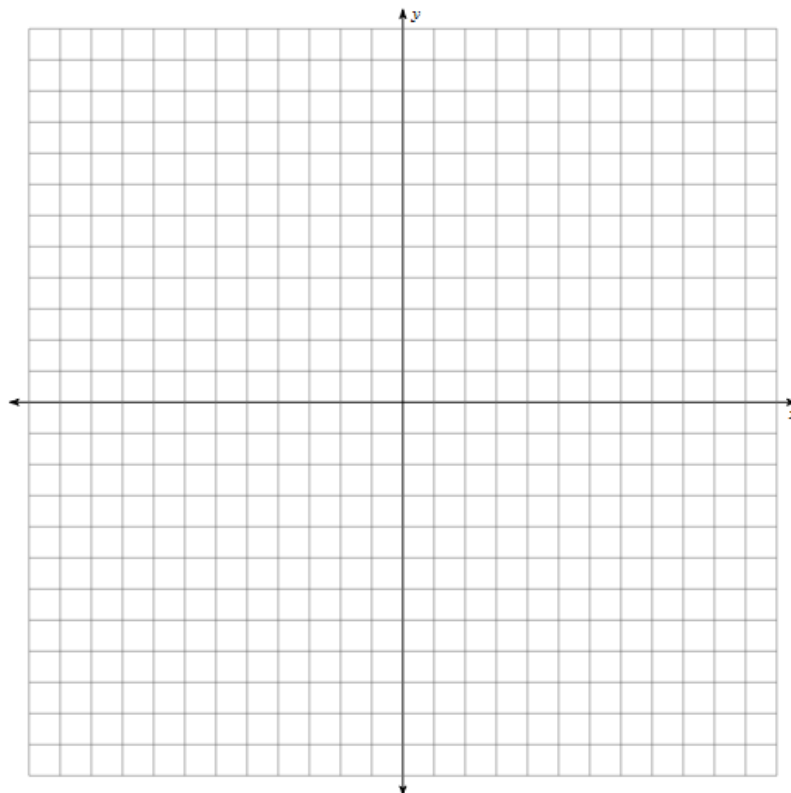


Instructions: For this booklet, fill in all the boxes given the original function. Do any calculations on the following blank page or on a separate piece of paper. When you graph, create a scale that works. All the transformed points do not need to be graphed, but the more the merrier. Let's do an example!

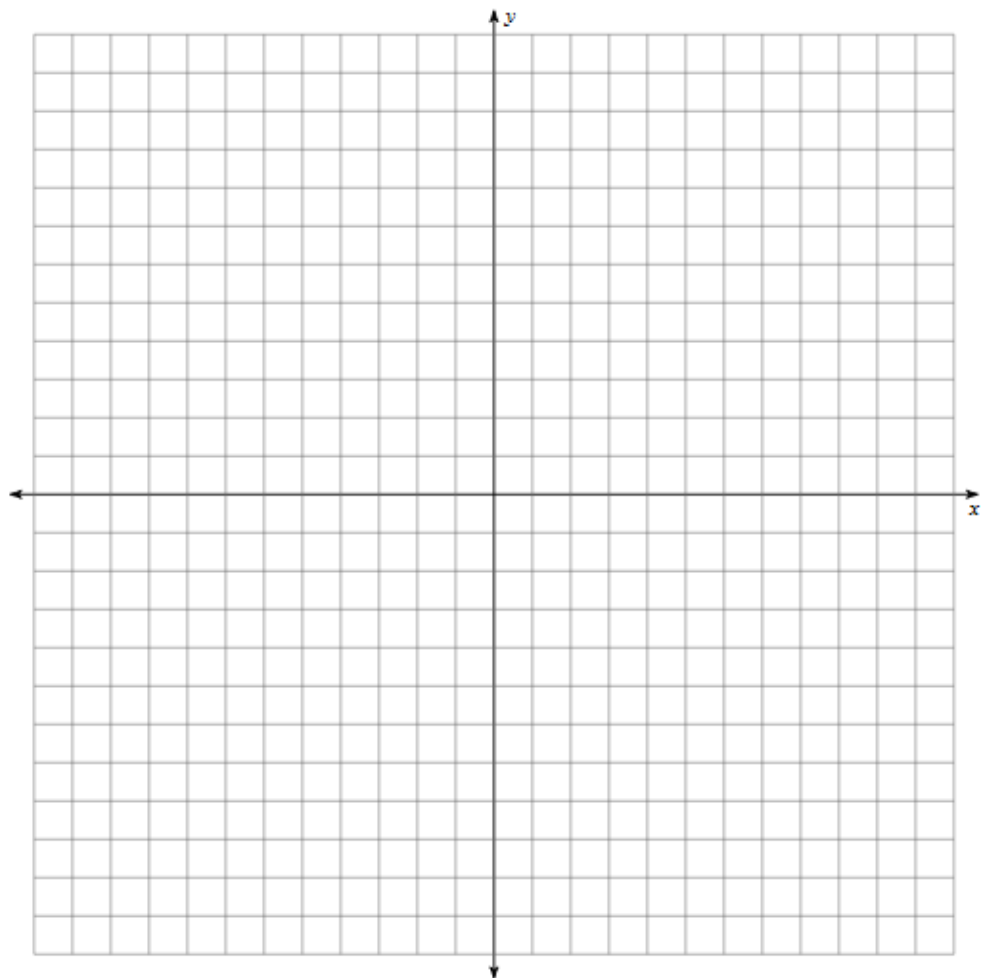
Function	Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch <i>a</i>	Horizontal Stretch $1/k$	Horizontal Shift <i>d</i>	Vertical Shift <i>c</i>
$f(x) = 2(x-4)^2 - 3$						
Domain		Range			y-int (x=0)	
Table Of Values	Parent Function:		Transformed Function			

Graph both the parent function and the transformed function.



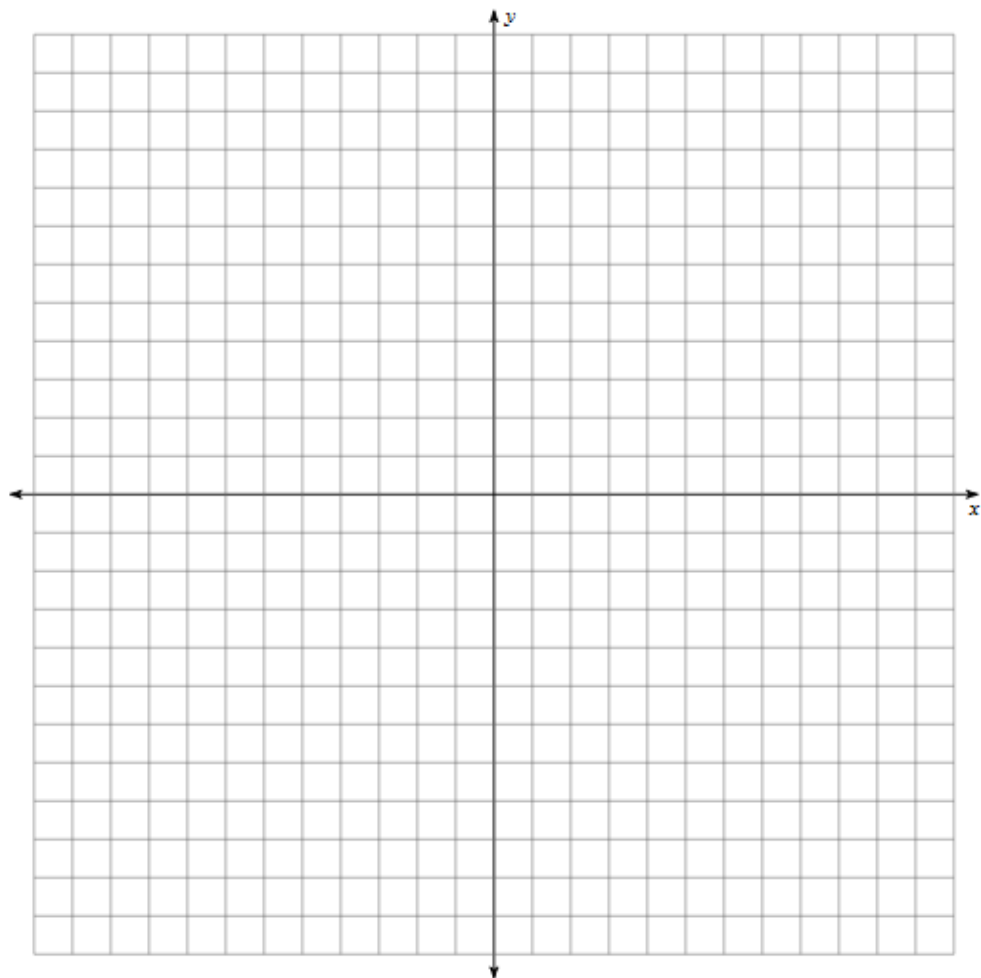
Function	Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch 1/k	Horizontal Shift d	Vertical Shift c
$g(x) = -3\sqrt{2x+8} + 7$						
Domain	Range		y-int (x=0)			
Table Of Values	Parent Function:		Transformed Function			

Graph both the parent function and the transformed function.



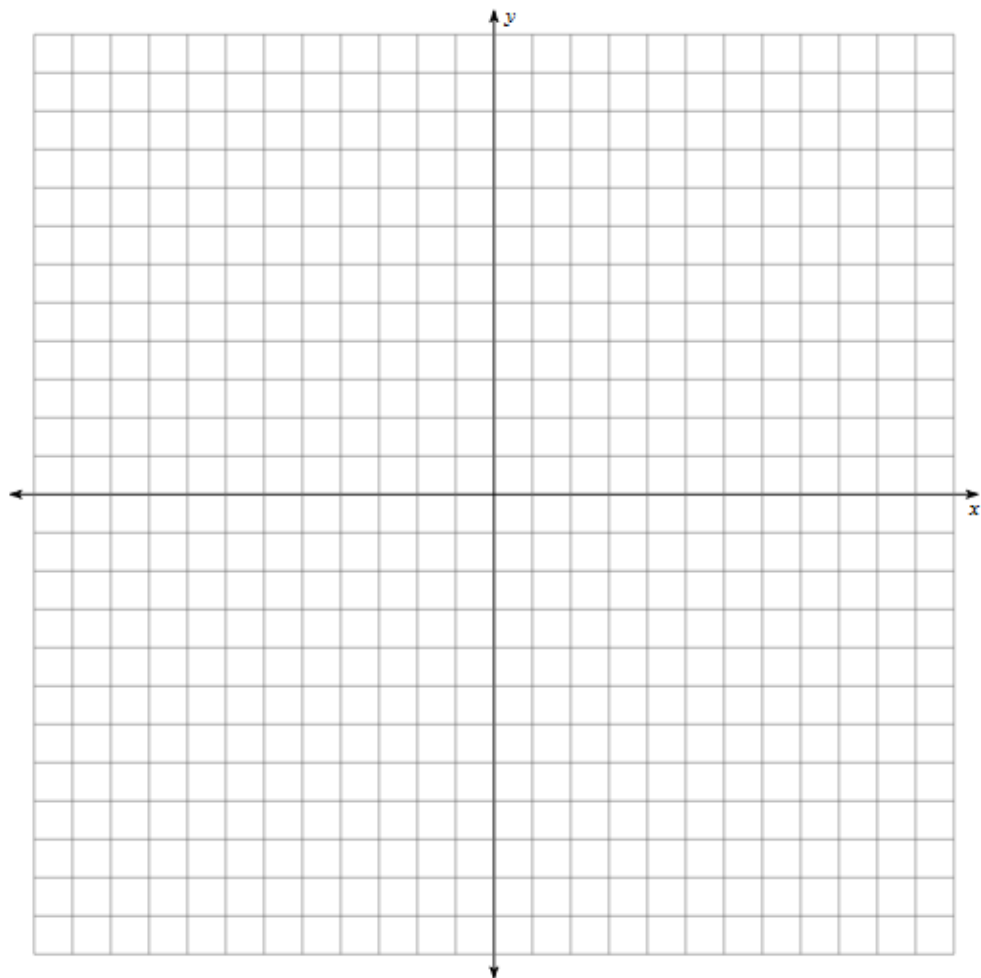
Function	Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch 1/k	Horizontal Shift d	Vertical Shift c
$h(x) = 5 x+2 - 8$						
Domain	Range		y-int (x=0)			
Table Of Values	Parent Function:		Transformed Function			

Graph both the parent function and the transformed function.



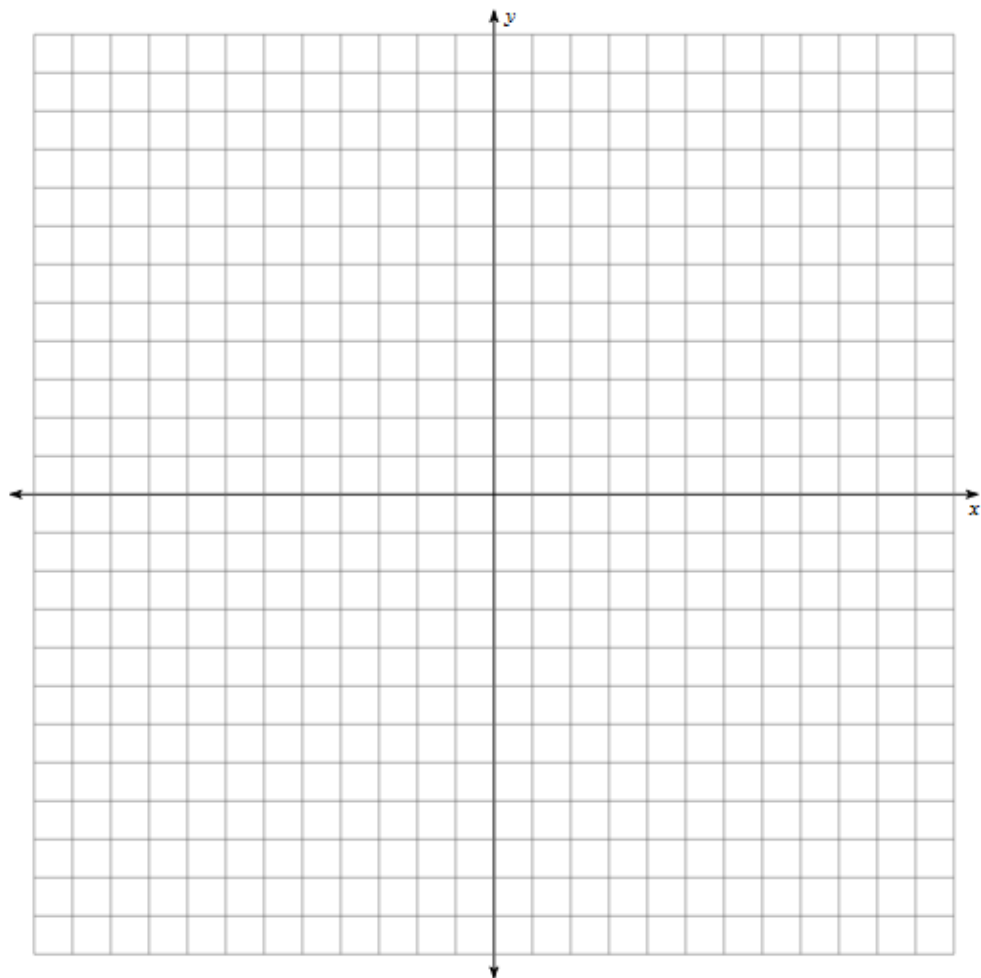
Function	Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch 1/k	Horizontal Shift d	Vertical Shift c
$k(x) = \frac{3}{\frac{1}{2}x - 4} + 5$						
Domain	Range		y-int (x=0)			
Table Of Values	Parent Function:		Transformed Function			

Graph both the parent function and the transformed function.



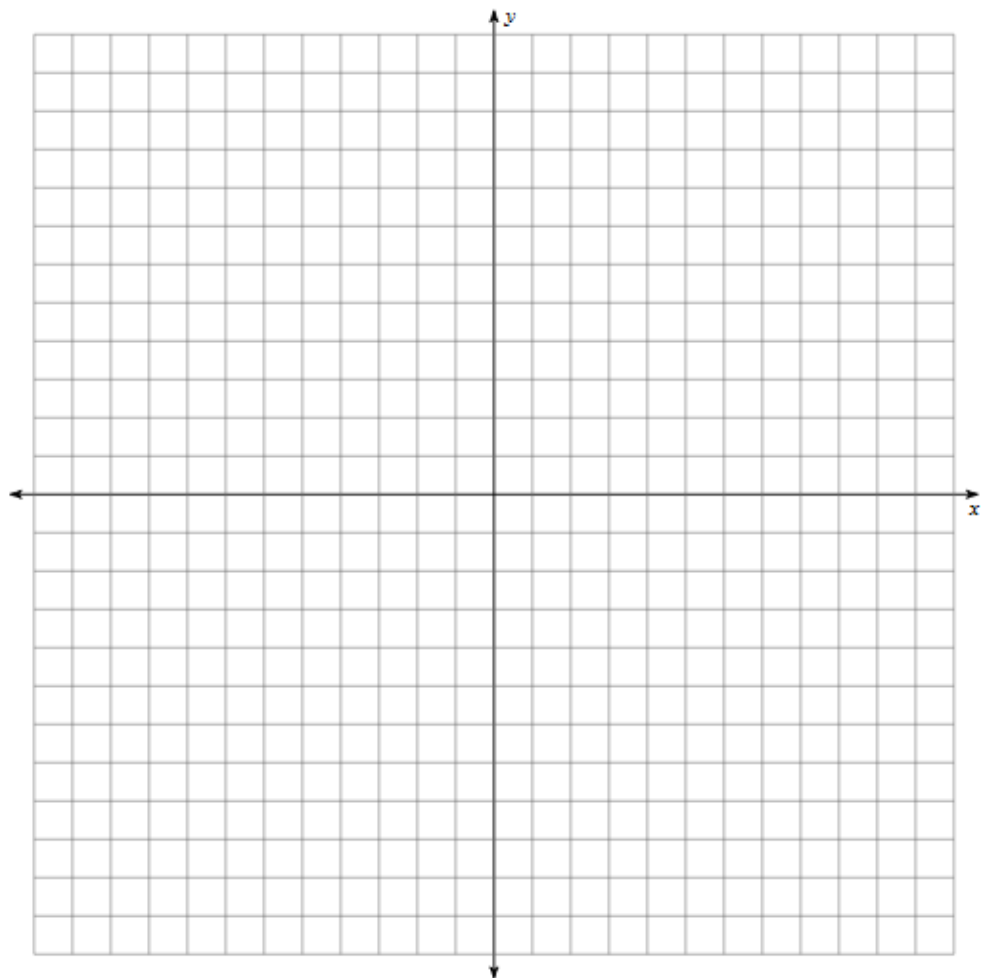
Function		Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch <i>a</i>	Horizontal Stretch $1/k$	Horizontal Shift <i>d</i>	Vertical Shift <i>c</i>
$m(x) = -4(2x+6)^2 + 7$							
Domain		Range		y-int (x=0)			
Table Of Values	Parent Function:			Transformed Function			

Graph both the parent function and the transformed function.



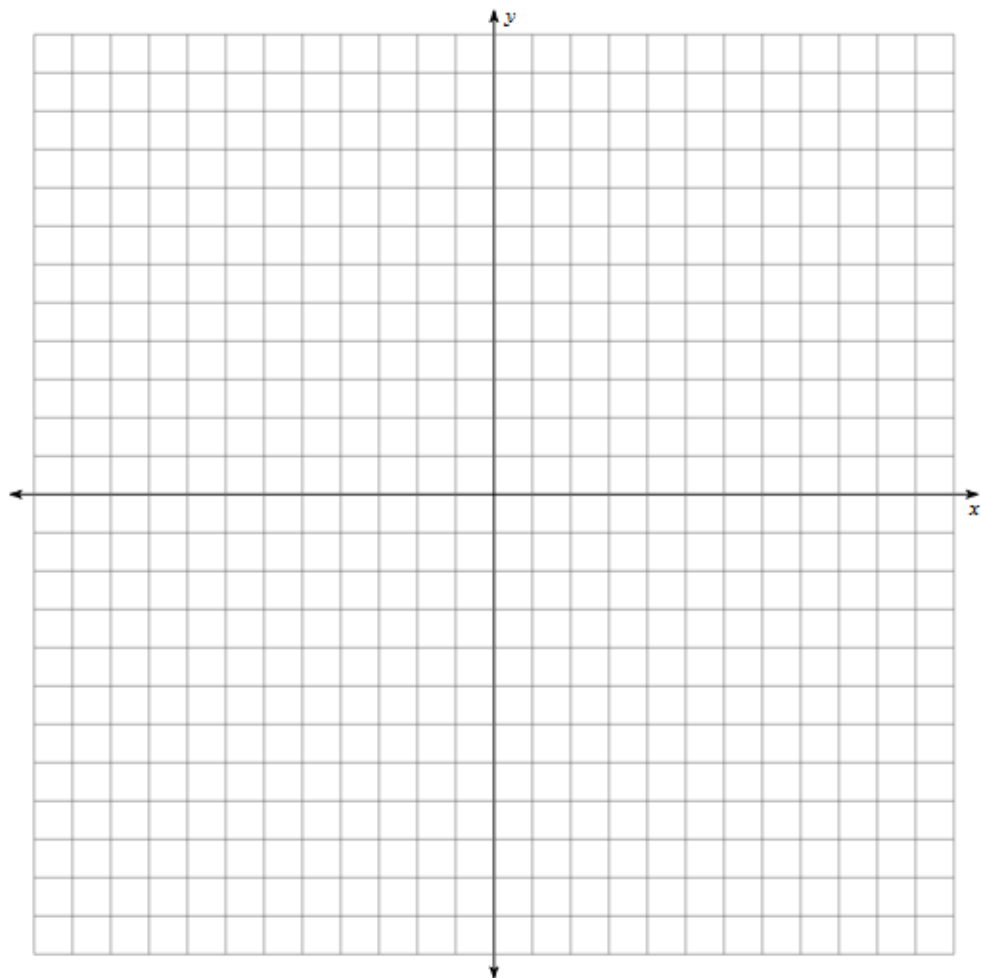
Function	Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch 1/k	Horizontal Shift d	Vertical Shift c
$n(x) = 5\sqrt{0.4x-1} - 3$						
Domain	Range		y-int (x=0)			
Table Of Values	Parent Function:		Transformed Function			

Graph both the parent function and the transformed function.



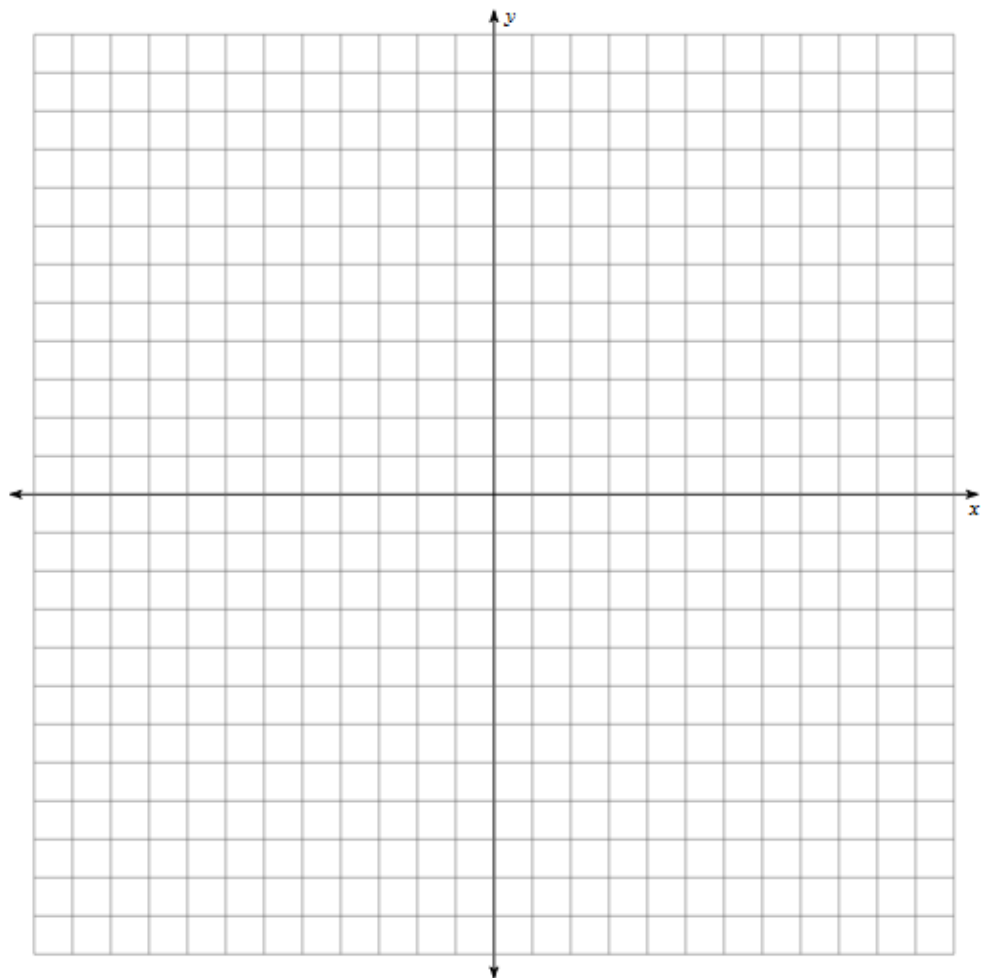
Function		Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch $1/k$	Horizontal Shift d	Vertical Shift c
$p(x) = -3\left \frac{2}{3}x + 6\right - 2$							
Domain		Range		y-int (x=0)			
Table Of Values	Parent Function:			Transformed Function			

Graph both the parent function and the transformed function.



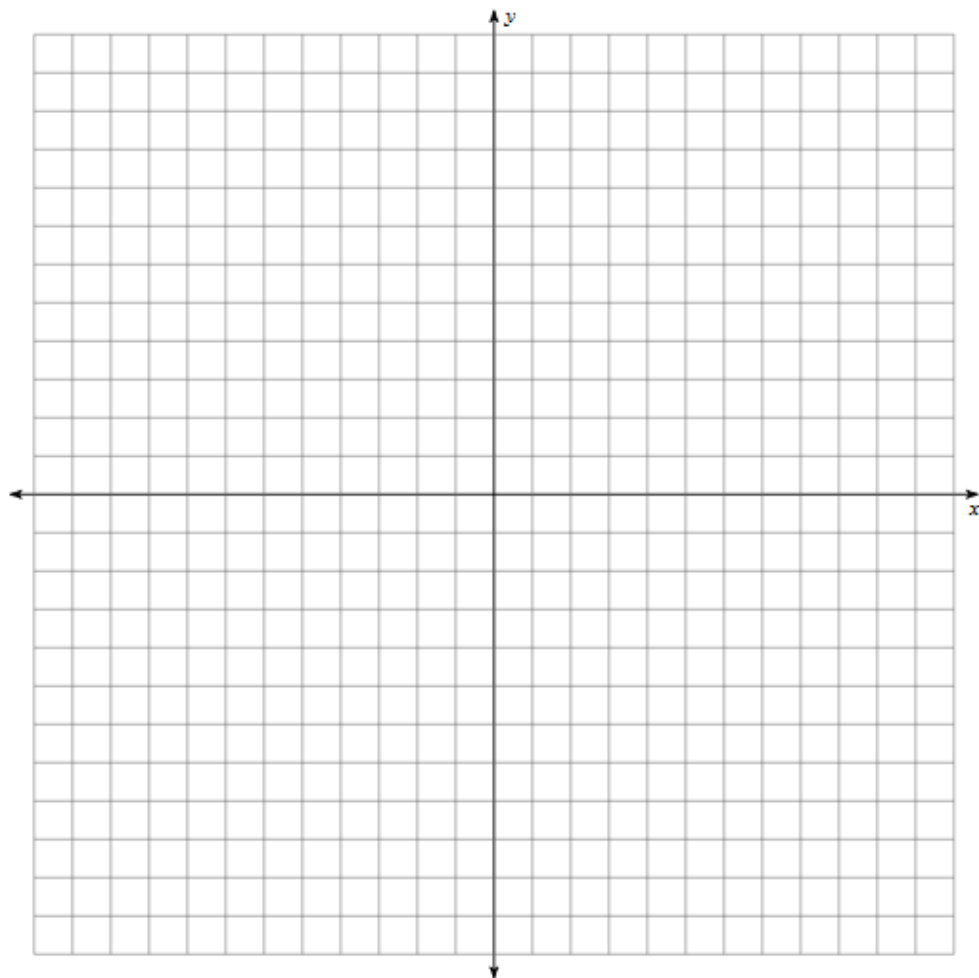
Function	Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch 1/k	Horizontal Shift d	Vertical Shift c
$r(x) = \frac{-2}{-x+4} - 6$						
Domain	Range		y-int (x=0)			
Table Of Values	Parent Function:		Transformed Function			

Graph both the parent function and the transformed function.



Function		Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch $1/k$	Horizontal Shift d	Vertical Shift c
$u(x) = \frac{3}{2}(x+7)^2 - 10$							
Domain		Range		y-int (x=0)			
Table Of Values	Parent Function:			Transformed Function			

Graph both the parent function and the transformed function.



Function		Proper Function $f(x) = a f(k(x-d)) + c$		Vertical Stretch a	Horizontal Stretch $1/k$	Horizontal Shift d	Vertical Shift c
$w(x) = \frac{-3}{4} \sqrt{\frac{-5}{2}x + 10} + 12$							
Domain		Range		y-int (x=0)			
Table Of Values	Parent Function:			Transformed Function			

Graph both the parent function and the transformed function.

