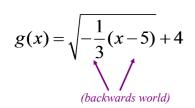
Today's Learning Goal(s):

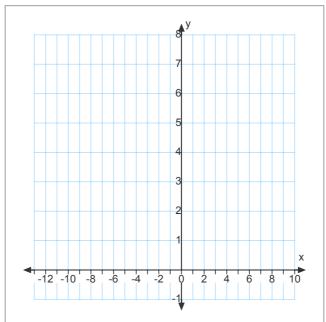
By the end of the class, I will be able to:

- a) apply all transformations to the parent functions.
- 1.8 Graphing y = af[k(x d)] + c (Day 2) Date: ______(Every lesson)
- Ex.1 The following transformations are applied to the square root function. (i.e. $f(x) = \sqrt{x}$)
 - Horizontal stretch by the factor 3
 - Vertical stretch by the factor 2
 - Reflection in the y-axis
 - Translation 5 units right and 4 units up

Write the equation for the final transformed function g(x).

$$f(x) = \sqrt{x}$$



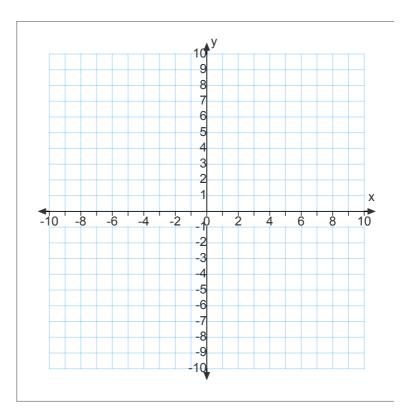


b) State the domain and range of both functions.

1.8 Graphing y=af[k(x-d)]+c (Day2)

Ex.3 For f(x) = |x| sketch the graph of g(x) = f(-5x+10)-2.

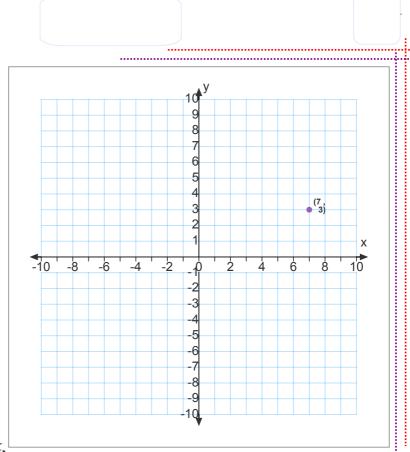
Remember: Factor first!



1.8 Graphing y=af[k(x-d)]+c (Day2)

Ex.4 Graph the function.

$$y = \frac{-2}{\frac{1}{3}(x-1)} + 4$$



one method is to map, a few key points using just *a* & *k*, then translate them.

$$() \rightarrow ()$$

$$() \rightarrow ()$$



1.8 Graphing y=af[k(x-d)]+c (Day2)		
Are there an	v Homowork Questions you would like to see	o on the beard?
Are there any Homework Questions you would like to see on the board?		
	Last day's work: p. 70 #1 – 3, 4abc, 5	ab
		•
	Today's Homework Practice includes:]
	Today's Homework Practice includes: pp. 70-71 #4def, 5cd, 6a, 7a	