Name:
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HOMEWORK 7.2

Secondary Math II

Turned in On Time (4 pts.) ☐

0A.(2 pt.) For the function $f(x) = -2x + 1$ find $(f \circ f)(x)$

0B.(2 pt.) For the function $g(x) = 5$ and $h(x) = 3x^2 - 4x + 3$, find $(g - h)(4)$.

Review

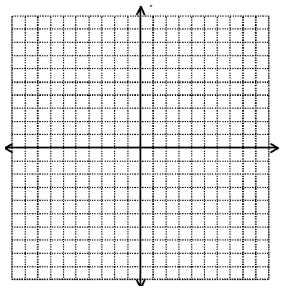
1. (1 pt.) Find the solutions to the quadratic equation $x^2 + 6x + 9 = 0$

2. (1 pt.) Write an equivalent expression by taking out the GCF of the following expression.
$7ab - 35a^2b$

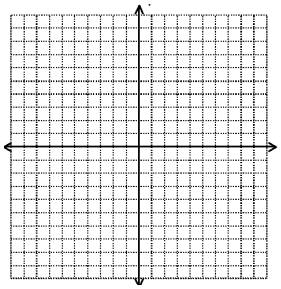
3. (1 pt.) Write an equivalent expression for the following expression
$(2x + 3)(x - 2)$

Classroom Exercise #4

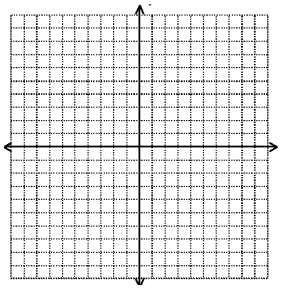
(3 pts.) ☐



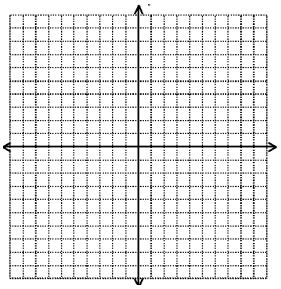
4A. (1 pt.) Graph the function that has the following (label key points)
1. Parent function is exponential
2. Vertical compression by a factor of 0.25



4B. (1 pt.) Graph the function that has the following following (label key points)
1. Parent function is cubic
2. Vertical stretch by a factor of 2



4C. (1 pt.) Graph the function that has the following following (label key points)
1. Parent function is linear
2. Vertical stretch by a factor of 5



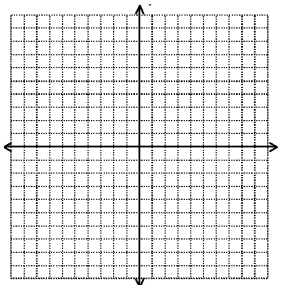
5. (2 pt.) Identify the parent and list the transformations that were applied to the parent function.
$k(s) = -7s$

6. (2 pt.) Identify the parent and list the transformations that were applied to the parent function.
$k(s) = -\sqrt{s}$

7. (2 pt.) Identify the parent, and list the transformations that were applied to the parent function.
$t(s) = 0.2s^2$

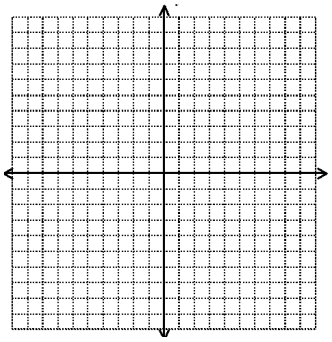
Classroom Exercise #8

(3 pts.)



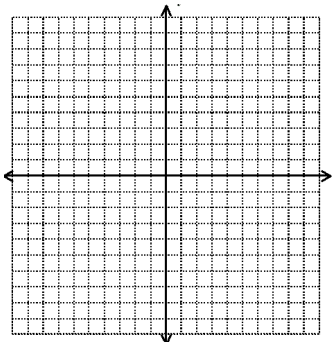
8A. (1pt.) Graph the function that has the following (label key points)

1. Parent function is absolute value
2. Vertical shift up 3 units



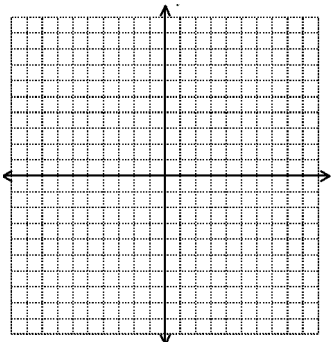
8B. (1pt.) Graph the function that has the following (label key points)

1. Parent function is linear
2. Vertical shift down 2 units



8C. (1pt.) Graph the function that has the following (label key points)

1. Parent function is radical
2. Vertical shift up 1 unit



9. (2 pt.) Identify the parent and list the transformations that were applied to the parent function.

$k(s) = s + 4$

10. (2 pt.) Identify the parent and list the transformations that were applied to the parent function.

$k(b) = |b| - 0.5$

11. (2 pt.) Identify the parent and list the transformations that were applied to the parent function.

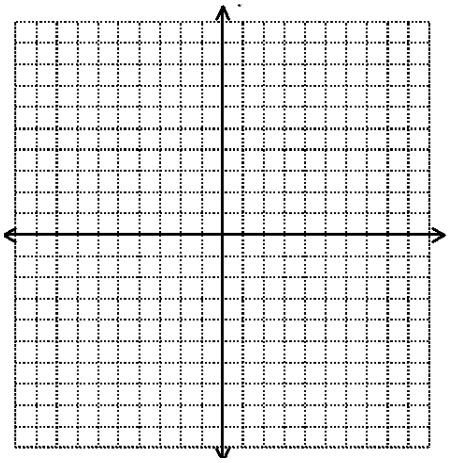
$k(r) = r^3 - 1$

12. (3 pt.)

Given the parent function $f(x) = x^3$,

1. Graph (label key points)
2. write as a function
3. List the transformations

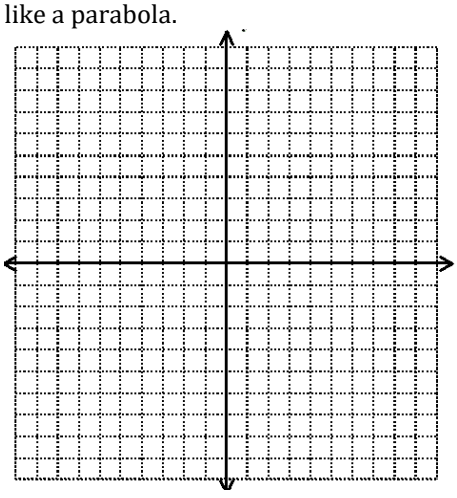
that occurred for $3f(x)$



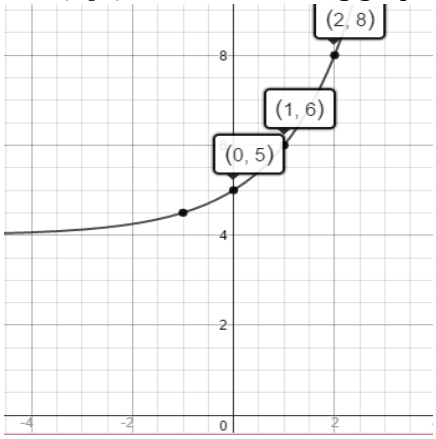
13. (3 pt.)

1. Graph (label key points)
2. write as a function
3. identify parent function

for the function that has a reflection about the x-axis and whose graph looks like a parabola.



14. (3 pt.) For the following graph,



1. identify the parent function
2. write as a function
3. List the transformations that have occurred.