Unit 1a Review State the transformations made to the parent function: 1. y = -2|x-3| + 32. $y = (-2x+4)^2 - 4$

3.
$$y = -\frac{1}{5}(x-3)^3 - 4$$
 4. $y = \sqrt{-\frac{1}{4}x - 3} - 2$

5.
$$y = |x - 3| + 4$$

6. $y = -(3x + 4)^2 - 2$

Write an equation for the description given as transformed from the parent function: 7. $f(x) = x^2$ Reflection over the y-axis, vertically stretched by a factor of 5, left 3, and up 4

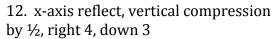
8. $f(x) = \sqrt{x}$ and down 6 Reflection of the x-axis, horizontally compressed by $\frac{1}{2}$, right 4,

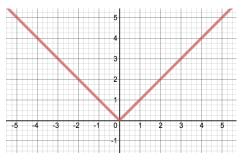
9.
$$f(x) = x^3$$
 Horizontally stretched by a factor of 6, down 7

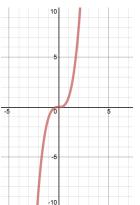
10. f(x) = |x| Vertically compressed by a factor of $\frac{1}{4}$, left 2, up 12

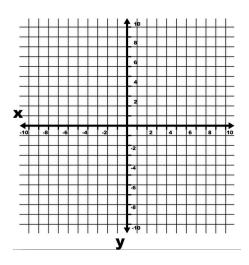
Write an equation for the description given as transformed from the parent function, then graph.

11. x-axis reflect, Vertical compression by 1/3, right 3, down 5

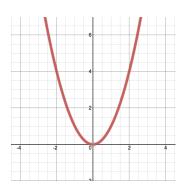


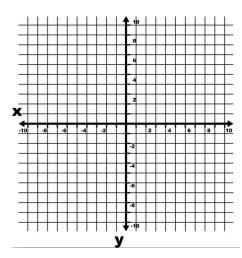


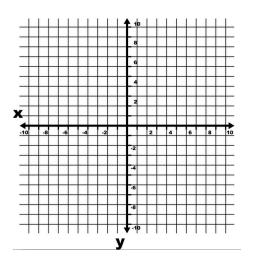




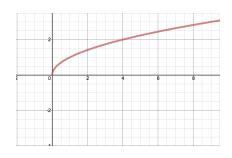
13. y-axis reflect, up 2

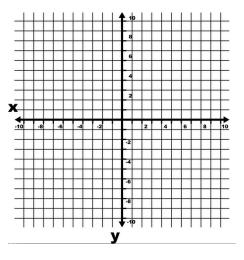






14. x-axis reflect, left 3, up 4





State the transformations made to the parent function then write the equations for the transformed function

