

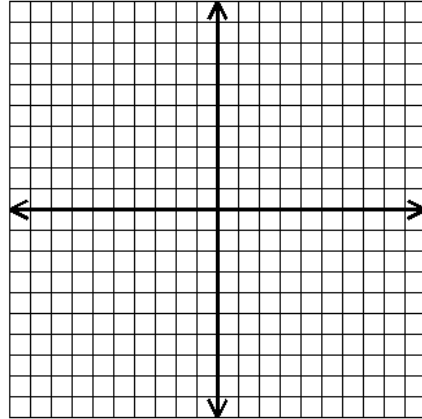
Name _____ Date _____ Period _____

Unit 2 Test Review - Parent Functions

Graph each function.

1. $f(x) = -|x + 1| - 4$

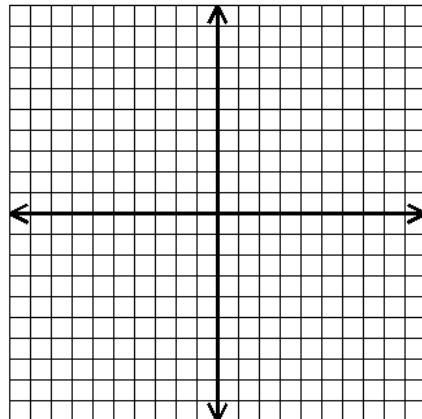
Describe the transformations.



Domain: _____ Range: _____

2. $g(x) = 2(x + 2)^3 - 1$

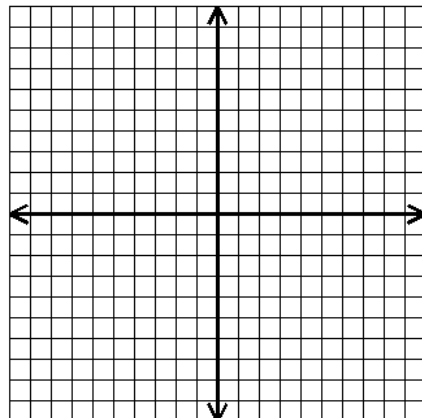
Describe the transformations.



Domain: _____ Range: _____

3. $f(x) = 2^{x-4} + 2$

Describe the transformations.

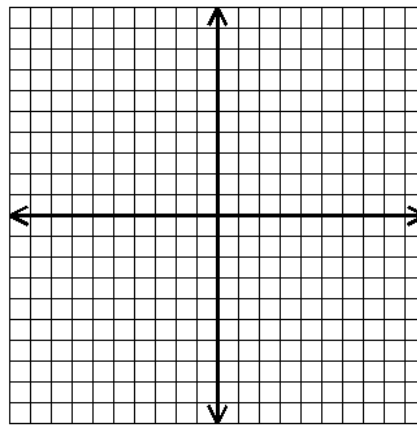


Domain: _____ Range: _____

4. $h(x) = \frac{1}{x+3} + 1$

Describe the transformations.

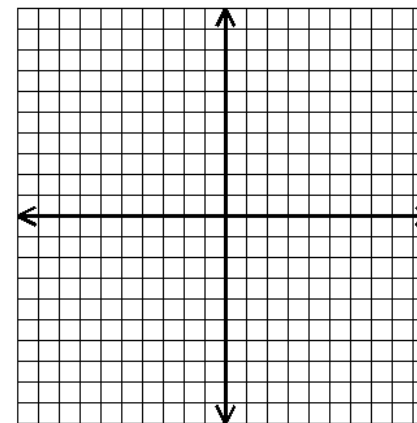
Domain: _____ Range: _____



5. $g(x) = -\sqrt{x+2} - 2$

Describe the transformations.

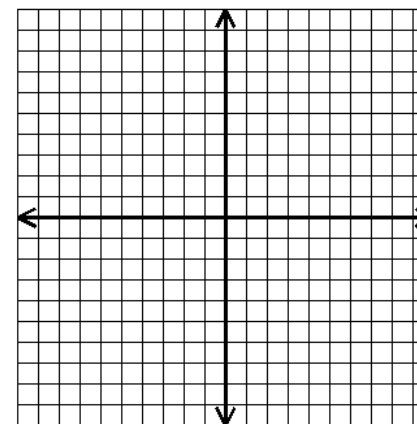
Domain: _____ Range: _____



6. $h(x) = -3x - 1$

Describe the transformations.

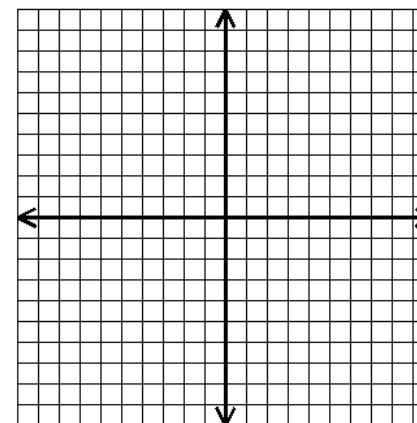
Domain: _____ Range: _____



7. $f(x) = -x^3 - 5$

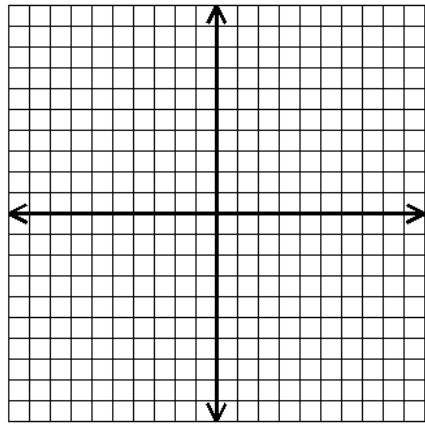
Describe the transformations.

Domain: _____ Range: _____



8. $h(x) = 2(x+1)^2 - 3$

Describe the transformations.



Domain: _____ Range: _____

Write the equation for each function.9. Start with $f(x) = \frac{1}{x}$. Reflect it across the x-axis and shift it 3 units right.

10. Start with $f(x) = x^3$. Reflect it across the x-axis and shift it 2 units left.

11. Start with $f(x) = |x|$. Stretch it by a factor of 6 and shift it 9 units down.

12. Start with $f(x) = x^2$. Shift it 5 units right, 7 units up, and reflect it across the x-axis.

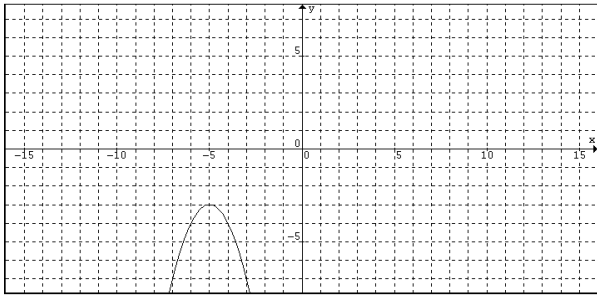
13. Start with $f(x) = 2^x$. Stretch by a factor of 4, shift it 3 units left and 2 unit up.

14. Start with $f(x) = x^3$. Shift it 8 units up and 3 units to the right.

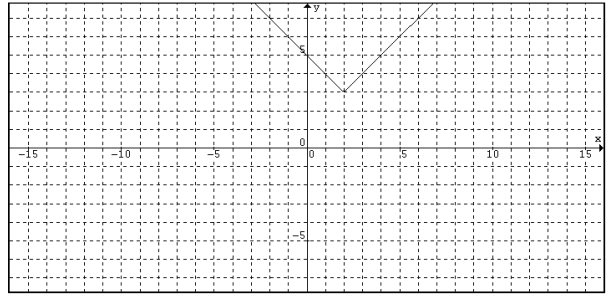
15. Start with $f(x) = \sqrt{x}$. Shift it 6 units right, 2 units down, and shrink it by a factor of $\frac{1}{2}$.

16. Start with $f(x) = x$. Shift it 4 units right, 5 units up, and stretch it by a factor of 5.

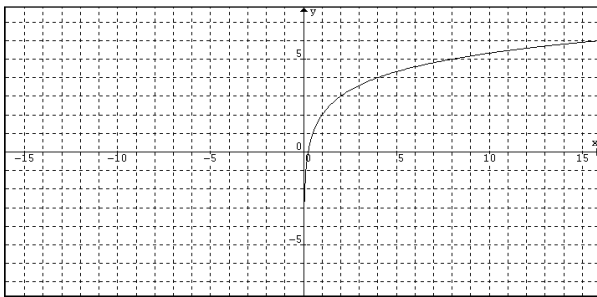
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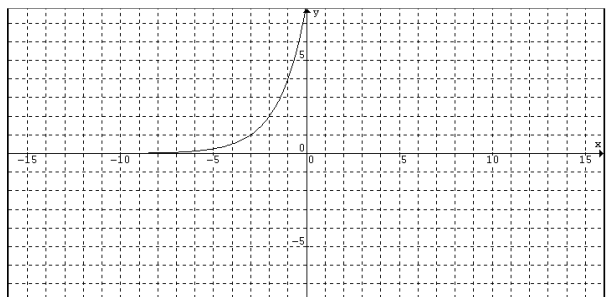
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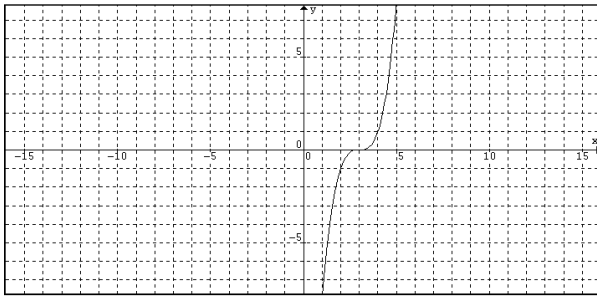
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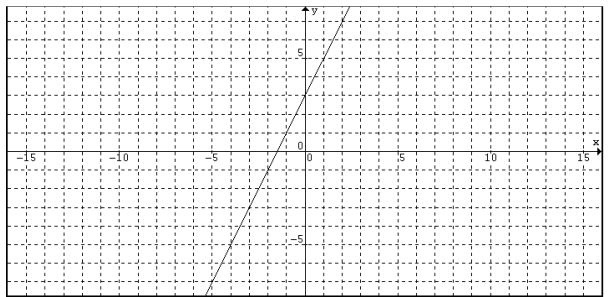
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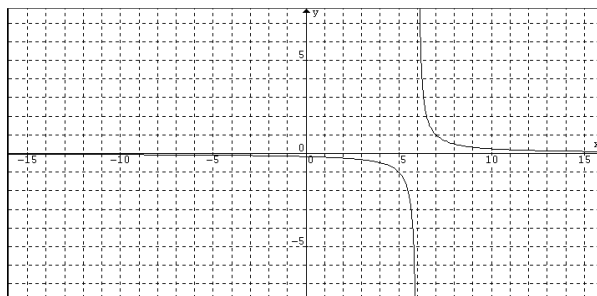
21. _____



22. _____



23. _____



24. _____

