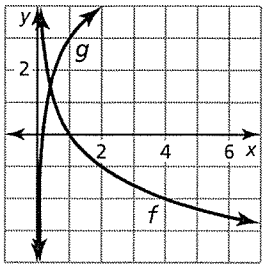
Answers

11. reflection in the x-axis, followed by a translation 3 units up



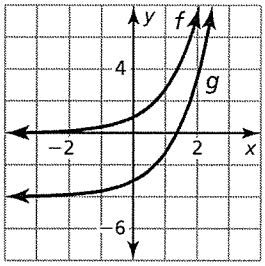
12. $g(x) = -3^{x+3} - 1$ **13.** $g(x) = \frac{1}{4}e^x + 5$

14. $g(x) = \log_8(-(x + 4))$

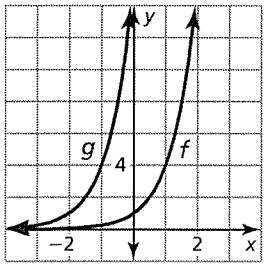
15. $g(x) = 9\log_{1/6}(x - 2) - 3$

6.4 Practice B

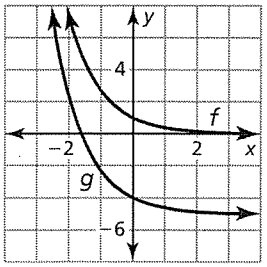
1. translation 4 units down



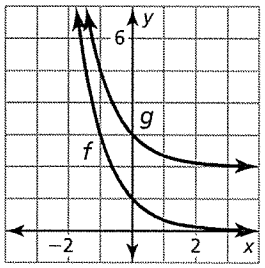
2. translation 2 units left



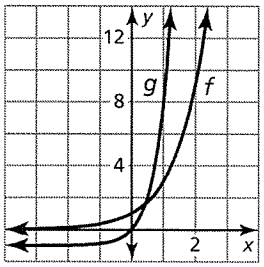
3. translation 5 units down



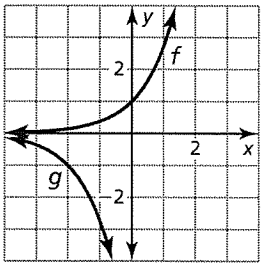
4. translation 2 units up



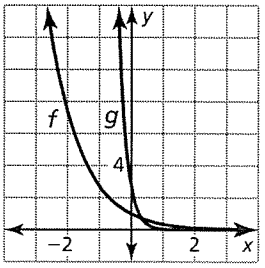
5. horizontal shrink by a factor of $\frac{1}{2}$, followed by a translation 1 unit down



6. reflection in the x-axis, followed by a translation 2 units left

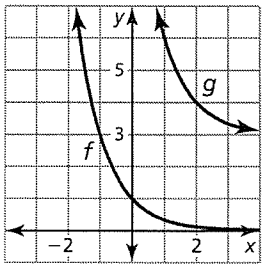


7. translation 1 unit right, followed by a horizontal shrink by a factor of $\frac{1}{4}$

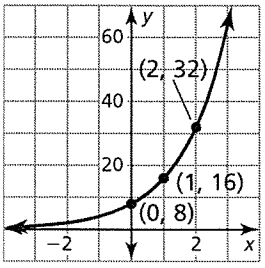


Answers

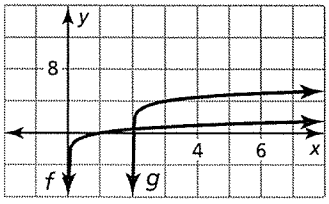
8. translation 2 units right and 3 units up



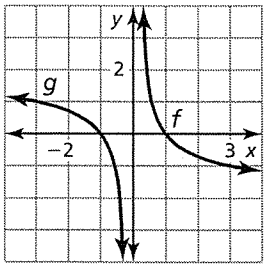
9. incorrectly evaluated as $2^x + 3$, but in $f(x) = 2^{x+3}$, the 3 is in the exponent and is added to x first



10. translation 2 units right and 4 units up



11. reflection in the y-axis, followed by a reflection in the x-axis



12. $g(x) = \left(\frac{2}{5}\right)^{-x/2} - 4$

13. $g(x) = 2\left(e^{-(x+2)} + 3\right) = 2e^{-x-2} + 6$

14. $g(x) = -\log_{12}(x - 5) + 2$