

T11 Review

Find the inverse of each function.

1) $g(n) = -3 + (n + 2)^3$

2) $g(x) = -2x + 4$

State if the given functions are inverses.

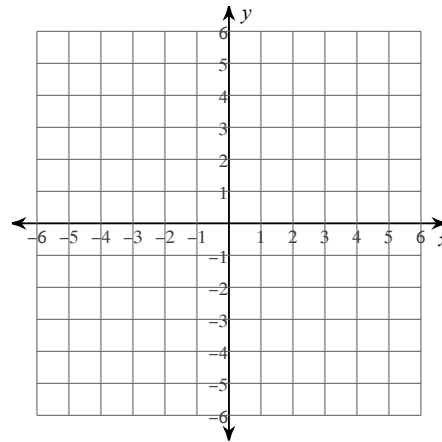
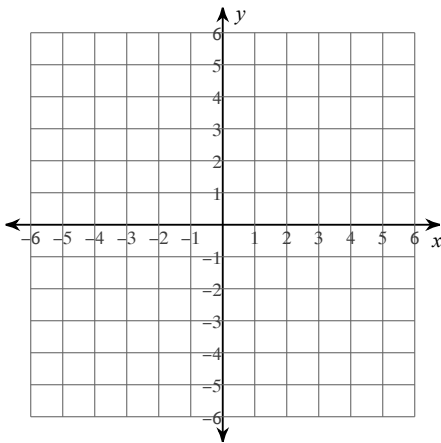
3) $f(x) = \sqrt[5]{\frac{x-1}{2}}$
 $g(x) = 2x^5 + 1$

4) $g(n) = -n + 2$
 $f(n) = 7n + 5$

Graph the given function. Use three points on your graph to use to graph the inverse of the given function. (hint: switch the x and y in the point to find the points on the inverse)

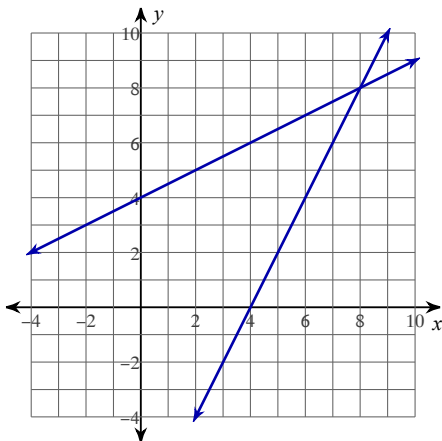
5) $f(x) = 3x + 2$

6) $f(x) = -\frac{3}{5}x - 3$

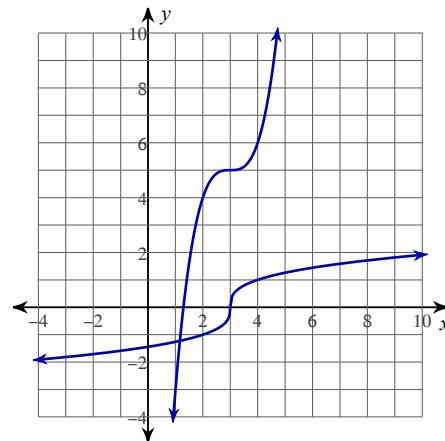


Are the graphs inverses? (hint: are they a reflection of each other over the line $y = x$? do they have ordered pairs where x and y are switched?)

7)

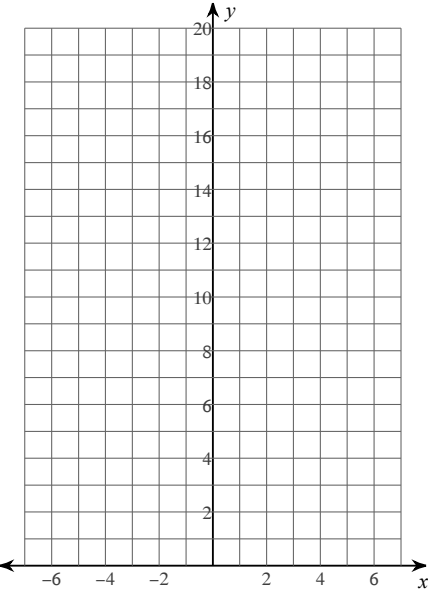


8)

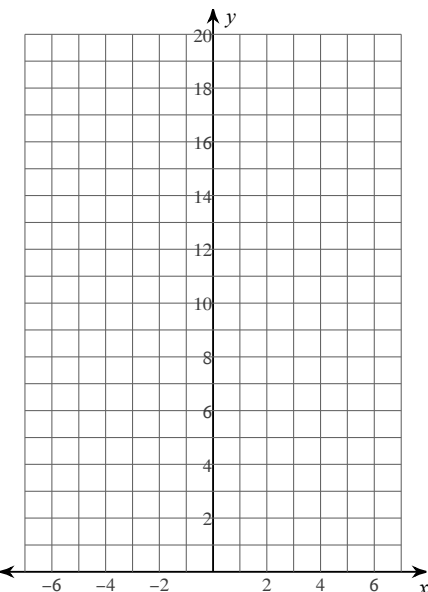


Sketch the graph of each function by using the starting points $(0, a)$, $(1, ab)$. Draw and label the asymptote.

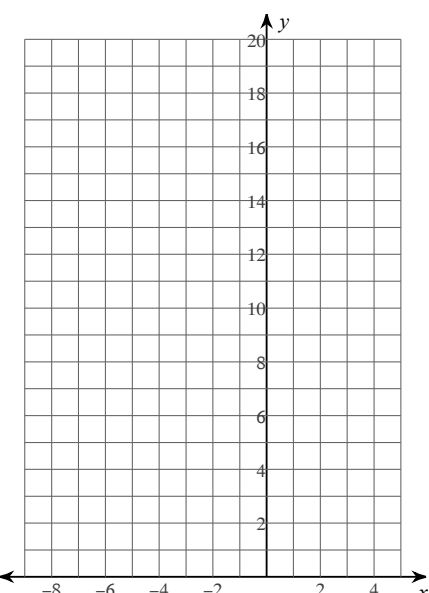
9) $y = \frac{1}{2} \cdot 4^x$



10) $y = 5 \cdot \left(\frac{1}{2}\right)^x$



11) $y = 4 \cdot \left(\frac{1}{2}\right)^{x+2} + 2$



12) $y = 4 \cdot 2^{x-1} + 2$

