

3.2 Homework

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $2b^{-1} \cdot (2b)^{-3}$

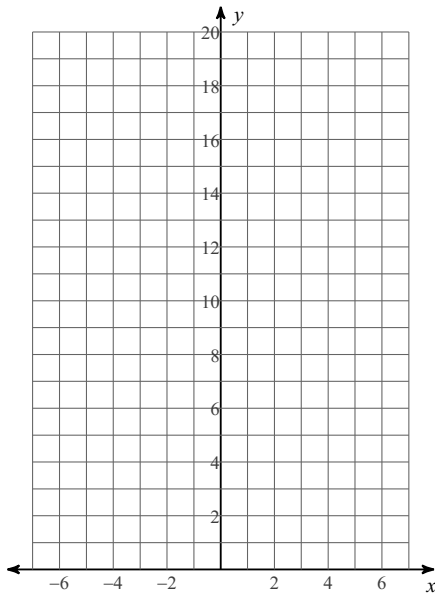
2) $(m^4 \cdot 2m^{-4})^{-3}$

3) $2x^{-1} \cdot (x^3x^3)^2$

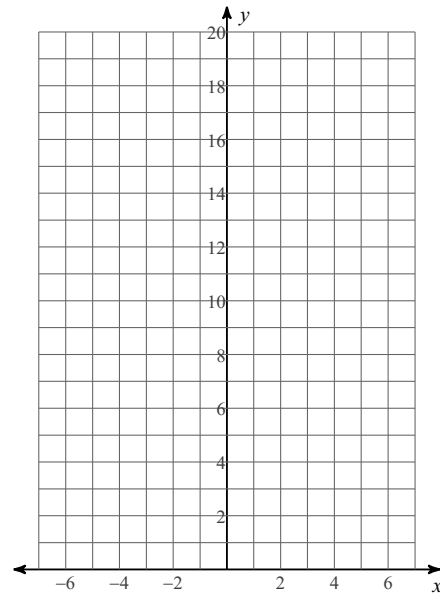
4) $(x^0 \cdot 2x^2)^3$

Sketch the graph of each function.

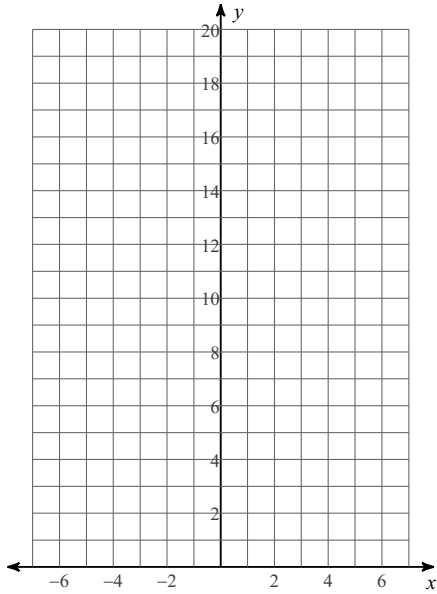
5) $y = 2^x$



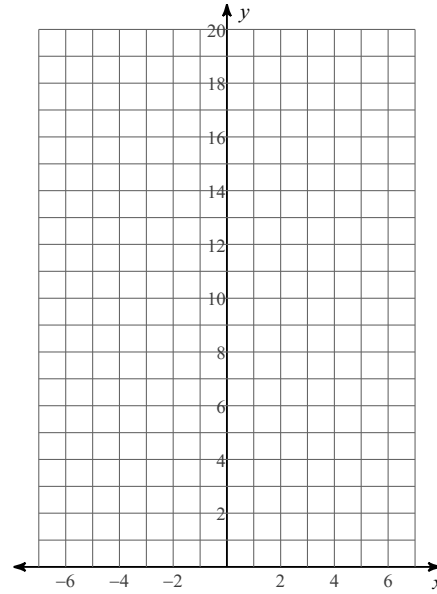
6) $y = 3^x$



7) $y = \left(\frac{1}{4}\right)^x$

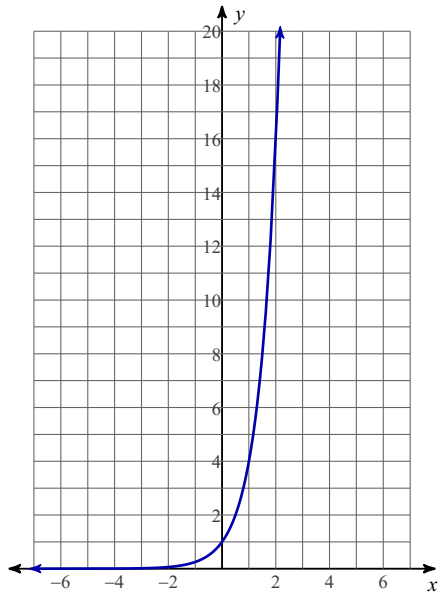


8) $y = \left(\frac{1}{2}\right)^x$

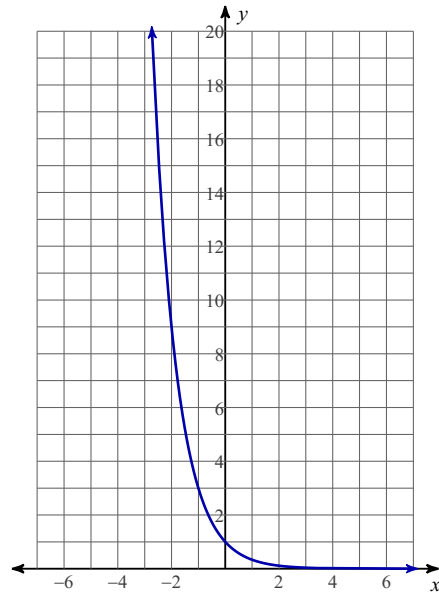


Write an equation for each graph.

9)



10)



Answers to 3.2 Homework

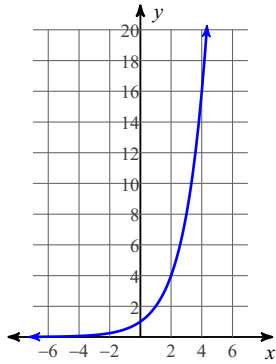
1) $\frac{1}{4b^4}$

2) $\frac{1}{8}$

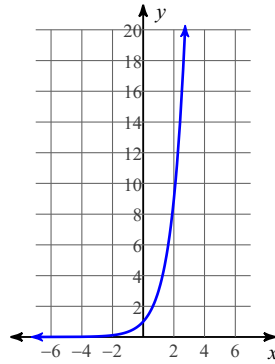
3) $2x^{11}$

4) $8x^6$

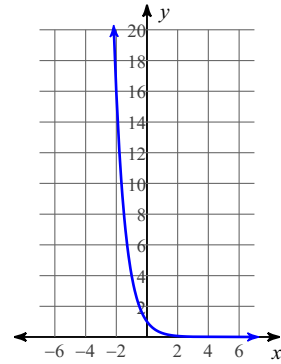
5)



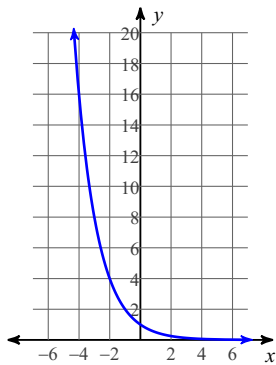
6)



7)



8)



9) $y = 4^x$

10) $y = \left(\frac{1}{3}\right)^x$