

Chapter Test Review Homework 1

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

1) $-y^2 \cdot -yx^4$

2) $-3y^3 \cdot 2y^3$

3) $2a^3 \cdot 4a^3b^2$

4) $3xy \cdot -x^2y^4$

5) $\frac{(y^4)^2 \cdot yx^3}{2x^2y^2}$

6) $\left(\frac{2xy^3 \cdot 2y^2}{y^4}\right)^4$

7) $\frac{b \cdot 2ba^3 \cdot 2a^4b^2}{(ba^3)^4}$

8) $\frac{(2xy^2 \cdot 2x^3)^2}{2yx^4}$

9) $\left(\frac{2u^{-4}v^2 \cdot 2u^{-4}v^4}{u}\right)^{-2}$

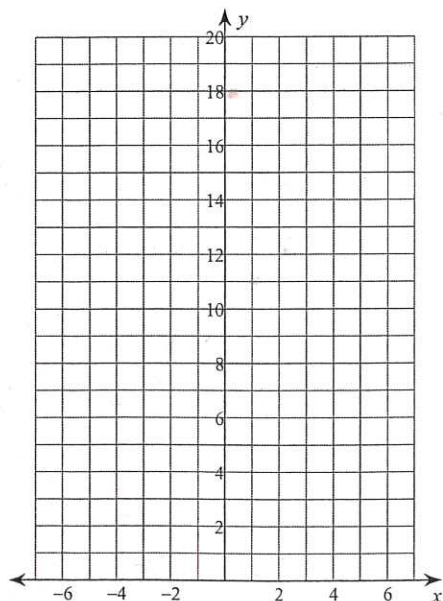
10) $\left(\frac{a^0b^3 \cdot a^4b^3}{a^2b^{-4}}\right)^{-4}$

11) $\frac{2u^4v^2 \cdot (2uv^{-2})^4}{uv^3 \cdot (u^3)^3}$

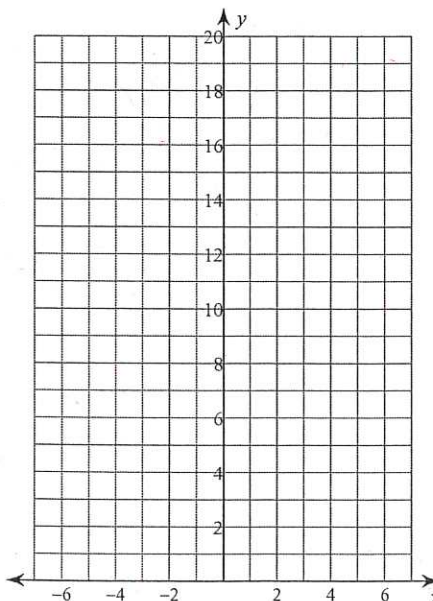
12) $\frac{(x^2y^{-4})^0 \cdot xy}{yx^4}$

Sketch the graph of each function.

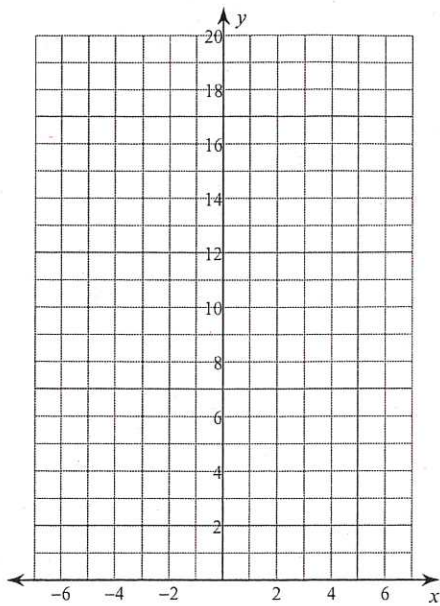
13) $y = 3 \cdot 2^x$



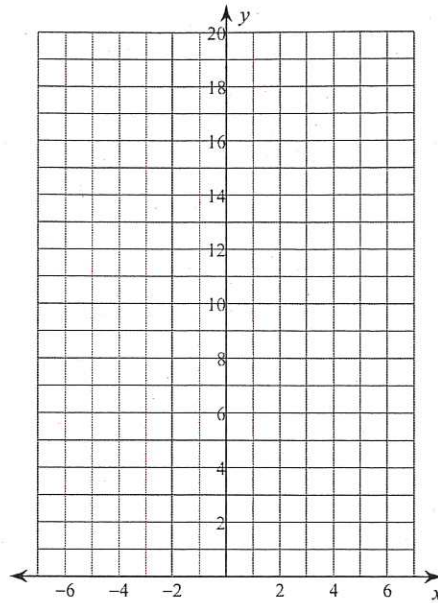
14) $y = 2 \cdot 3^x$



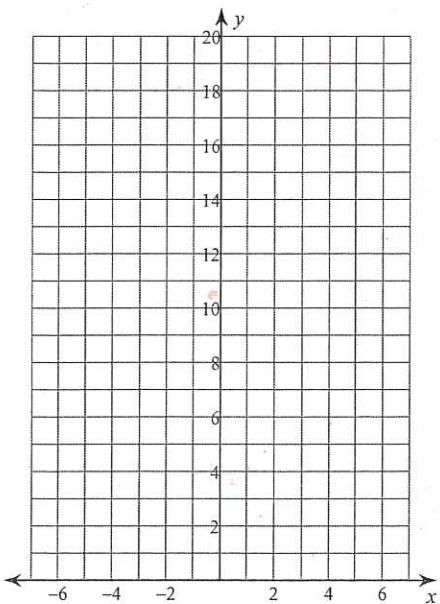
15) $y = 4 \cdot 2^x$



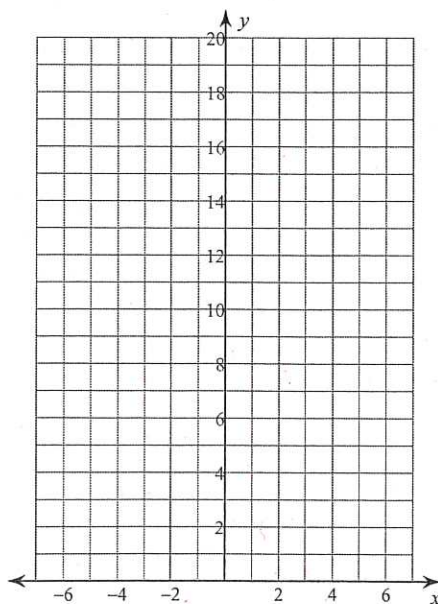
16) $y = 5 \cdot \left(\frac{1}{2}\right)^x$



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

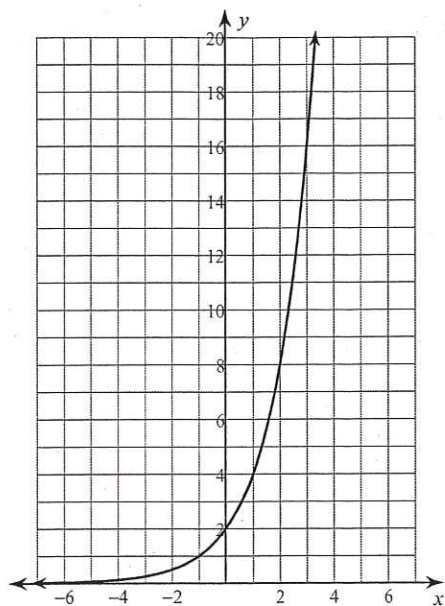


18) $y = 2 \cdot \left(\frac{1}{2}\right)^x$

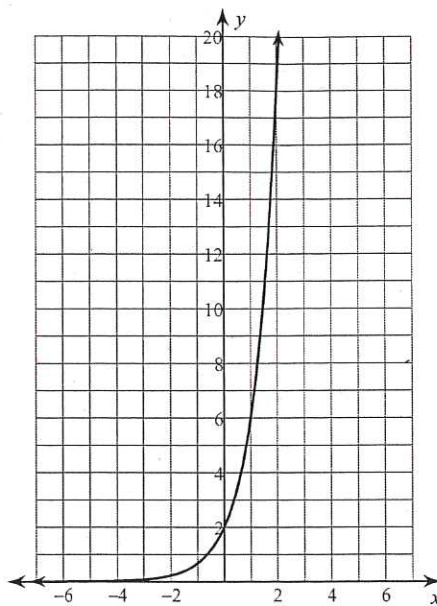


Write an equation for each graph.

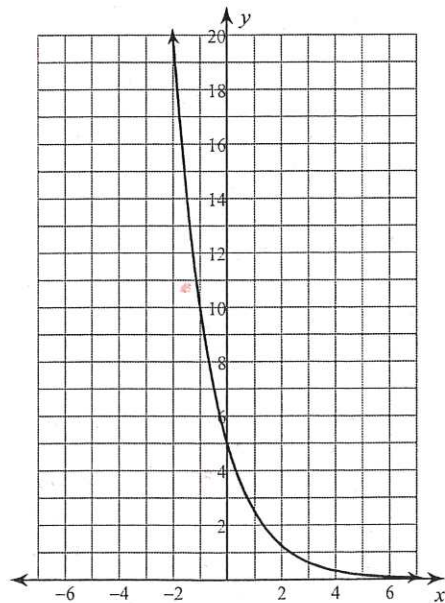
19)



20)



21)



22)

