

WS 3.3B Division Property and Literal Equations

Solve each equation for the indicated variable.

1) $\frac{k}{a} = vw$, for a

2) $xk = vw$, for x

3) $m - x = p - n$, for x

4) $g = \frac{cb}{a}$, for a

Solve each equation for y .

5) $4x - 7y = -7$

6) $2x + 9y = -5$

7) $4x + 7y = -49$

8) $x + 4y = -13$

Simplify. Your answer should contain only positive exponents.

9) $\frac{5x^{10}y^3}{10x^5y^5}$

10) $\frac{8xy^{10}}{4x^{10}y^3}$

11) $\frac{8xy^8z^6}{12x^6y^4z^6}$

12) $\frac{10x^9y^8z^5}{8x^4y^6z^4}$

13) $\frac{4b^{-2}}{4a^0b^{-4}}$

14) $\frac{4x^3y^{-1}}{2x^{-2}y^{-3}}$

15) $\frac{2a^{-2}b^4}{b^4}$

16) $\frac{3xy^0}{3xy^4}$

17) $\frac{(ba^2)^2}{2a^4b^{-2}}$

18) $\left(\frac{m^4n^2}{2m^{-4}n^2}\right)^3$