

29.  $(3x)^3$

30.  $(5w^8)^2$

31.  $(p^4q^2)^7$

32.  $(-4x^3)^4$

33.  $-(4x^3)^4$

34.  $(x^3y^4)^3 \cdot (xy^3)^{-2}$

Find the missing exponent in each expression.

35.  $a^{\square} a^4 = a^{10}$

36.  $(a^{\square})^4 = a^{12}$

37.  $(a^2b^{\square})^4 = a^8b^{12}$

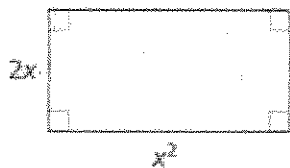
38.  $(a^3b^6)^{\square} = \frac{1}{a^9b^{18}}$

39.  $(b^2)^{-4} = \frac{1}{b^{\square}}$

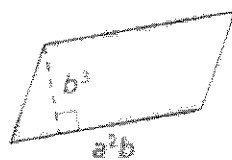
40.  $a^{\square} \cdot a^6 = a^6$

Geometry Write an expression for the area of each figure.

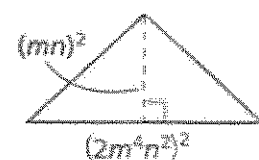
41.



42.



43.



Simplify, if possible.

44.  $x^6y^5$

45.  $(2x^2)^2 \cdot (3x^3)^3$

46.  $x^2 \cdot y^{-3} \cdot x^{-2} \cdot y^{-3}$

47.  $(5x^2)(5x^2)^2$

48.  $-(x^2)^4(-x^2)^4$

49.  $a^3 \cdot a^0 \cdot 3a^3$

50.  $(ab)^3(ab)^{-2}$

51.  $10^2 \cdot 10^{-4} \cdot 10^5$

52.  $(x^2y^2)^2(x^2y)^{-2}$