Power of a Product Property

$$(ab)^m = a^m b^m$$

When taking a product to a power, each factor gets raised to the power. If there is a coefficient, don't forget to take that to the power.

Examples

1. $(xy)^3 = x^3 y^3$
2. $(2w)^4 = 2^4 w^4 = 16w^4$
3. $(-3ab)^2 = (-3)^2 a^2 b^2 = 9a^2 b^2$

Try These

1. $(ab)^5$ 1. _____
2. $(xy)^8$ 2. _____
3. $(-2g)^3$ 3. _____
4. $(5xy)^2$ 4. _____
5. $(-3b)^4$ 5. _____
6. $(-mnp)^2$ 6. _____
7. $(6bc)^2$ 7. _____
8. $(-3k)^3$ 8. _____
9. $(9abc)^2$ 9. _____
10. $(-2h)^5$ 10. _____