

Product of a Sum and Difference

$$(a + b)(a - b) = a^2 - b^2$$

Simplify.

1. $(c + 8)(c - 8)$

2. $(2x - 3)(2x + 3)$

3. $(4u + 1)(4u - 1)$

4. $(7n - 9)(7n + 9)$

5. $(3d + 8x)(3d - 8x)$

6. $(2x^3 + 3y^4)(2x^3 - 3y^4)$

7. $\left(\frac{4}{5}y + m\right)\left(\frac{4}{5}y - m\right)$	8. $\left(\frac{1}{3}x - \frac{2}{3}y\right)\left(\frac{1}{3}x + \frac{2}{3}y\right)$
9. $(6x^4 - 5y^3)(6x^4 + 5y^3)$	10. $(2y^3 - 7x^5)(2y^3 + 7x^5)$
11. $(x+1)(x-1)(x+2)$	12. $(2x+1)(2x-1)(2x+1)$