Product of **Sum** and **Difference** of Two Binomials

Multiply.

① $(x + 6)(x - 6)$

② $(x + 9)(x - 11)$

③ $(n + 3)(n - 5)$

④ $(9x + 4)(9x - 4y)$

⑤ $(3x + 5y)(8x - 7y)$

⑥ $(p + 6)(p - 8)$

⑦ $(n^2 + 3)(n^2 - 3n)$

⑧ $(-p + 2p^2)(p + 2p^2)$

⑨ $(u - 7w)(u + 3w)$

⑩ $(5a^2 + 7b)(5a^2 - 7b)$

⑪ $(3x + 2)(4x - 7)$

⑫ $(2u^2 + 3v^4)(2u^2 - 3v^4)$

⑬ $(p + 7p^2)(p - 11)$

⑭ $(10y + 1)(10y - 1)$

Product of Sum and Difference of Two Binomials

Answers

① $(x + 6)(x - 6)$

$x^2 - 36$

② $(x + 9)(x - 11)$

$x^2 - 2x - 99$

③ $(n + 3)(n - 5)$

$n^2 - 2n - 15$

④ $(9x + 4)(9x - 4y)$

$81x^2 - 16y^2$

⑤ $(3x + 5y)(8x - 7y)$

$x^2 + 19xy - 35y^2$

⑥ $(p + 6)(p - 8)$

$p^2 - 2p - 48$

⑦ $(n^2 + 3)(n^2 - 3n)$

$n^4 - 9n^2$

⑧ $(-p + 2p^2)(p + 2p^2)$

$4p^4 - p^2$

⑨ $(u - 7w)(u + 3w)$

$u^2 - 4uw - 21w^2$

⑩ $(5a^2 + 7b)(5a^2 - 7b)$

$25a^4 - 49b^2$

⑪ $(3x + 2)(4x - 7)$

$12x^2 + 13x - 14$

⑫ $(2u^2 + 3v^4)(2u^2 - 3v^4)$

$4u^4 - 9v^8$

⑬ $(p + 7p^2)(p - 11)$

$7p^3 - 76p^2 - 11p$

⑭ $(10y + 1)(10y - 1)$

$100y^2 - 1$