

# Multiplying Binomials - Box Method

Find the product using box method

①  $(5x + 2y)(5x - 2)$

②  $(4x^2 - y)(2x^2y^2 + xy)$



③  $(-3a - 12)(5a - 3a^5)$

④  $(3g - 10)(4g - 3g^2)$



⑤  $(2s + 7)(10s - 5)$

⑥  $(5pqr + 20p)(pqr^2 - 6)$



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## Answers

①  $(5x + 2y)(5x - 2)$

$5x$	$-2$
$25x^2$	$-10x$
$10xy$	$-4y$

②  $(4x^2 - y)(2x^2y^2 + xy)$

$2x^2y^2$	$xy$
$8x^4y^2$	$4x^3y$
$-2x^2y^3$	$-xy^2$

$25x^2 + 10xy - 10x - 4y$

$8x^4y^2 + 4x^3y - 2x^2y^3 - xy^2$

③  $(-3a - 12)(5a - 3a^5)$

$5a$	$-3a^5$
$-15a^2$	$9a^6$
$-60a$	$36a^5$

④  $(3g - 10)(4g - 3g^2)$

$4g$	$-3g^2$
$12g^2$	$-9g^3$
$-40g$	$30g^2$

$9a^6 + 36a^5 - 15a^2 - 60a$

$-9g^3 + 42g^2 - 40g$

⑤  $(2s + 7)(10s - 5)$

$10s$	$-5$
$20s^2$	$-10s$
$70s$	$-35$

⑥  $(5pqr + 20p)(pqr^2 - 6)$

$pqr^2$	$-6$
$5p^2q^2r^3$	$-30pqr$
$20p^2qr^2$	$-120p$

$20s^2 + 60s - 35$

$5p^2q^2r^3 + 20p^2qr^2 - 30pqr - 120p$