

# Factoring ( $a \neq 1$ )

Factor each completely.

①  $3x^2 - 16x + 20$

②  $10x^2 - 27x + 5$

③  $18x^3 + 33x^2 - 30x$

④  $24x^2 - 52xy + 8y^2$

⑤  $5a^2 - 11a + 6$

⑥  $8p^2 - 20p - 72$

⑦  $6n^2 + 45n + 84$

⑧  $10m^2 + 23m + 6$

⑨  $16a^2 + 60a - 100$

⑩  $5u^2 + 31uv - 28v^2$

# Factoring ( $a \neq 1$ )

## Answers

①  $3x^2 - 16x + 20$

$(3x - 10)(x - 2)$

③  $18x^3 + 33x^2 - 30x$

$3x(2x + 5)(3x - 2)$

⑤  $5a^2 - 11a + 6$

$(5a - 6)(a - 1)$

⑦  $6n^2 + 45n + 84$

$3(n + 4)(2n + 7)$

⑨  $16a^2 + 60a - 100$

$4(a + 5)(4a - 5)$

②  $10x^2 - 27x + 5$

$(2x - 5)(5x - 1)$

④  $24x^2 - 52xy + 8y^2$

$4(x - 2y)(6x - y)$

⑥  $8p^2 - 20p - 72$

$4(2p - 9)(p + 2)$

⑧  $10m^2 + 23m + 6$

$(m + 2)(10m + 3)$

⑩  $5u^2 + 31uv - 28v^2$

$(5u - 4v)(u + 7v)$