

Name: _____

Date: _____ Score: _____

FACTOR EACH EXPRESSION

① $x^2 - 16x + 63$

② $7k^2 + 9k$

③ $6x^2 - 36xy$

④ $2x^2 - 24xy + 64y^2$

⑤ $36x^4 - 246x^3y - 42y^2x^2$

⑥ $4q^2a + 9qa + 2a$

⑦ $39b - 52b + 13$

⑧ $40a - 80b - 40c$

⑨ $4x^3 + 43x^2 + 30x$

⑩ $7x^2 - 32x - 60$

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FACTOR EACH EXPRESSION

Answers

① $x^2 - 16x + 63$

$(x - 9)(x - 7)$

② $7k^2 + 9k$

$k(7k + 9)$

③ $6x^2 - 36xy$

$6x(x - 6y)$

④ $2x^2 - 24xy + 64y^2$

$2(x - 4y)(x - 8y)$

⑤ $36x^4 - 246x^3y - 42y^2x^2$

$6x^2(x - 7y)(6x + y)$

⑥ $4q^2a + 9qa + 2a$

$a(q + 2)(4q + 1)$

⑦ $39b - 52b + 13$

$13(-b + 1)$

⑧ $40a - 80b - 40c$

$40(a - 2b - c)$

⑨ $4x^3 + 43x^2 + 30x$

$x(4x + 3)(x + 10)$

⑩ $7x^2 - 32x - 60$

$(7x + 10)(x - 6)$