

Name : _____

Factoring Polynomials

Factor each expression.

① $25x^2 + 60x + 36$

② $9x^2 - 24x + 16$

③ $x^2 - 13x + 36$

④ $x^2 + 6x - 72$

⑤ $15x^2 - 28x - 32$

⑥ $9x^2 + 7x - 56$

⑦ $8x^2 - 6x - 9$

⑧ $2x^2 + 21x + 27$

Name : _____

Factoring Polynomials

Answers

① $25x^2 + 60x + 36$

$(5x + 6)^2$

② $9x^2 - 24x + 16$

$(3x - 4)^2$

③ $x^2 - 13x + 36$

$(x - 9)(x - 4)$

④ $x^2 + 6x - 72$

$(x - 6)(x + 12)$

⑤ $15x^2 - 28x - 32$

$(3x - 8)(5x + 4)$

⑥ $9x^2 + 7x - 56$

Not factorable

⑦ $8x^2 - 6x - 9$

$(4x + 3)(2x - 3)$

⑧ $2x^2 + 21x + 27$

$(x + 9)(2x + 3)$