

Name : _____

Score : _____

Factoring Review Worksheet

Factor each completely.

① $4x^2 + 12x - 40$

② $7x^3 + 2x^2 + 42x + 12$

③ $16x^3 - 6x^2 - 8x + 3$

④ $8x^3 + 32x^2 - 8x - 32$

⑤ $-30x^2 + 288x - 384$

⑥ $48x^2 - 27$

⑦ $10x^2 + 11x - 6$

⑧ $15x^2 - 110x + 200$

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Factoring Review Worksheet

Answers

① $4x^2 + 12x - 40$

$4(x + 5)(x - 2)$

② $7x^3 + 2x^2 + 42x + 12$

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

③ $16x^3 - 6x^2 - 8x + 3$

$(2x^2 - 1)(8x - 3)$

④ $8x^3 + 32x^2 - 8x - 32$

$8(x - 1)(x + 1)(x + 4)$

⑤ $-30x^2 + 288x - 384$

$-6(5x - 8)(x - 8)$

⑥ $48x^2 - 27$

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

⑦ $10x^2 + 11x - 6$

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

⑧ $15x^2 - 110x + 200$

$5(3x - 10)(x - 4)$