

Name :

Factoring Practice

Factor each expression.

$$xy^2 + xy$$

$$6p - 72$$

$$4a^3 - 49a$$

$$4x^2 - 9$$

$$8x^3 - x^2$$

$$x^2 - 16y^2$$

$$4x^2 + 16$$

$$x^2 - 18x + 80$$

$$32 + 18x + x^2$$

$$4x + 12 + x^2 + 3x$$

$$6xy^2 - 3xy + 8y - 4$$

$$7x^4 - 28x^2$$

$$x^2 + 4x + 4$$

$$6x^2 - 41x - 7$$

$$x^4 - 11x^3 + 24x^2$$

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Factoring Practice

Answers

$$xy^2 + xy$$

$$\underline{xy(y + 1)}$$

$$4x^2 - 9$$

$$\underline{(2x + 3)(2x - 3)}$$

$$4x^2 + 16$$

$$\underline{4(x^2 + 4)}$$

$$4x + 12 + x^2 + 3x$$

$$\underline{(4 + x)(x + 3)}$$

$$x^2 + 4x + 4$$

$$\underline{(x + 2)^2}$$

$$6p - 72$$

$$\underline{6(p - 12)}$$

$$8x^3 - x^2$$

$$\underline{x^2(8x - 1)}$$

$$x^2 - 18x + 80$$

$$\underline{(x - 8)(x - 10)}$$

$$6xy^2 - 3xy + 8y - 4$$

$$\underline{(3xy + 4)(2y - 1)}$$

$$6x^2 - 41x - 7$$

$$\underline{(x - 7)(6x + 1)}$$

$$4a^3 - 49a$$

$$\underline{a(2a + 7)(2a - 7)}$$

$$x^2 - 16y^2$$

$$\underline{(x - 4y)(x + 4y)}$$

$$32 + 18x + x^2$$

$$\underline{(16 + x)(2 + x)}$$

$$7x^4 - 28x^2$$

$$\underline{7x^2(x + 2)(x - 2)}$$

$$x^4 - 11x^3 + 24x^2$$

$$\underline{x^2(x - 8)(x - 3)}$$