

Name: _____

Date: _____

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Factoring Polynomials Worksheet

Factor out the GCF in each expression

1 $2x^2y - 2xy$

2 $6a^2 - 7a - 10$

3 $y^3 + 8$

4 $x^2 - 8x - 9$

5 $15x^2 - 18x - 24$

6 $25x^3 + 8x^2$

7 $12x^2 - 16x$

8 $3x^3 - 6x^2 - 9x$

9 $x^2 + 9x + 20$

10 $6a^2 - 11a + 4$

11 $x^2 - 9x + 20$

12 $6x^2 + 13x + 6$

13 $8x^2 - 6x - 2$

14 $6n^2 + 12n - 144$

15 $10x^2 - 105x + 135$

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Answers

1 $2x^2y - 2xy$

2 $6a^2 - 7a - 10$

3 $y^3 + 8$

$2xy(x - 1)$

$(6a + 5)(a - 2)$

$(y + 2)(y^2 - 2y + 4)$

4 $x^2 - 8x - 9$

5 $15x^2 - 18x - 24$

6 $25x^3 + 8x^2$

$(x + 1)(x - 9)$

$(5x^2 - 6x - 3)$

$x^2(25x^2 + 8)$

7 $12x^2 - 16x$

8 $3x^3 - 6x^2 - 9x$

9 $x^2 + 9x + 20$

$4x(3x - 4)$

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

$(x + 4)(x + 5)$

10 $6a^2 - 11a + 4$

11 $x^2 - 9x + 20$

12 $6x^2 + 13x + 6$

$(2a - 1)(3a - 4)$

$(x - 4)(x - 5)$

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

13 $8x^2 - 6x - 2$

14 $6n^2 + 12n - 144$

15 $10x^2 - 105x + 135$

$2(4x + 1)(x - 1)$

$6(n - 4)(n + 6)$

$5(2x - 3)(x - 9)$