

Name : _____

Factoring Binomials Worksheet

Factor each completely.

1. $2x^2 + 28x$

2. $19x - 57x$

3. $27a^3b^3 + 36a^4b^2$

4. $-16x + 20x^3$

5. $12y^3 - 18y^5$

6. $x^2 - 25$

7. $3x^4 + 9x^2$

8. $12x^2y - 42xyz$

9. $9x^2 + 5x$

10. $3x^2 - 108$

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Factoring Binomials Worksheet

Answers

1. $2x^2 + 28x$

$$2x(x + 14)$$

2. $19x - 57x$

$$19(x - 3x)$$

3. $27a^3b^3 + 36a^4b^2$

$$9a^3b^2(3b + 4a)$$

4. $-16x + 20x^3$

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

5. $12y^3 - 18y^5$

$$3y^3(4 - 6y^2)$$

6. $x^2 - 25$

$$(x + 5)(x - 5)$$

7. $3x^4 + 9x^2$

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

8. $12x^2y - 42xyz$

$$6xy(2x - 7z)$$

9. $9x^2 + 5x$

$$x(9x + 5)$$

10. $3x^2 - 108$

$$3(x^2 - 36)$$