

Algebra Practice

Name _____

Date 8/7/2026

Evaluate or simplify each algebraic expression.

1.

Factor the GCF: $12x - 4$

6.

$3(8x + 4)$

2.

Factor the GCF: $10x + 30$

7.

$(7x + 8) + (4x + 6)$

3.

Evaluate $2x + 3$ when $x = -6$

8.

$(2x + 5) + (6x + 5)$

4.

Evaluate $4x + 2$ when $x = 1$

9.

$(3x + 4) + (7x + 1)$

5.

$5(2x + 6)$

10.

$2(4x - 9)$

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Name _____

Date 8/7/2026

Evaluate or simplify each algebraic expression.

1.

Factor the GCF: $12x - 4$

Answer: $4(3x - 1)$

6.

$3(8x + 4)$

Answer: $24x + 12$

2.

Factor the GCF: $10x + 30$

Answer: $5(2x + 6)$

7.

$(7x + 8) + (4x + 6)$

Answer: $11x + 14$

3.

Evaluate $2x + 3$ when $x = -6$

Answer: -9

8.

$(2x + 5) + (6x + 5)$

Answer: $8x + 10$

4.

Evaluate $4x + 2$ when $x = 1$

Answer: 6

9.

$(3x + 4) + (7x + 1)$

Answer: $10x + 5$

5.

$5(2x + 6)$

Answer: $10x + 30$

10.

$2(4x - 9)$

Answer: $8x - 18$