

Name : _____

Factoring Trinomials with Leading Coefficient Different from 1

Factor each completely.

1) $5x^2 + 26x + 24$

2) $2x^2 + 7x - 30$

3) $3x^2 - 8x + 4$

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

5) $6x^2 - 10x + 50$

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

7) $5x^2 - 14x + 8$

8) $9x^2 + 66x + 21$

9) $-6x^2 + 5x + 6$

10) $7x^2 + 53x + 28$

11) $-6x^2 + x + 12$

12) $4x^2 - 4x - 63$

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Factoring Trinomials with Leading Coefficient Different from 1

Answers

1) $5x^2 + 26x + 24$

2) $2x^2 + 7x - 30$

3) $3x^2 - 8x + 4$

$(5x + 6)(x + 4)$

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

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

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

5) $6x^2 - 10x + 50$

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

$(2x + 1)(x + 2)$

$2(3x^2 - 5x + 25)$

$(3x - 5)(x + 1)$

7) $5x^2 - 14x + 8$

8) $9x^2 + 66x + 21$

9) $-6x^2 + 5x + 6$

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

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

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

10) $7x^2 + 53x + 28$

11) $-6x^2 + x + 12$

12) $4x^2 - 4x - 63$

$(7x + 4)(x + 7)$

$(-3x - 4)(2x - 3)$

$(2x + 7)(2x - 9)$