

MA90 Exercises for section 6.3 More Trinomial Factoring

Short Answer

1. Factor the trinomial.

$$3x^2 + 7x + 2$$

.

2. Factor the trinomial.

$$4x^2 + 3x - 7$$

.

3. Factor the trinomial.

$$42x^2 - 85x + 42$$

.

Name: _____

ID: A

4. Factor the trinomial.

$$4x^2 - 36xy + 81y^2$$

5. Factor the trinomial.

$$12x^2 - 25x + 12$$

6. Factor the trinomial.

$$6a^2 + 7ab + 2b^2$$

7. Factor the trinomial.

$$50m^2 + 15m - 2$$

Name: _____

ID: A

8. Factor the trinomial.

$$3x^2 - xy - 14y^2$$

.

9. Factor the trinomial.

$$12x^2 - 37x + 28$$

.

10. Factor the trinomial.

$$6t^2 - 41t + 65$$

.

11. Factor the expression completely. Look first for the greatest common factor.

$$16x^2 + 12x - 28$$

.

Name: _____

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12. Factor the expression completely. Look first for the greatest common factor.

$$10x^3 - 23x^2 + 12x$$

13. Factor the expression completely. Look first for the greatest common factor.

$$12x^3 - 94x^2 - 16x$$

14. What polynomial factors to $(4x + 7)(4x - 7)$?

15. What polynomial factors to $(x + 3)(x - 3)(x^2 + 9)$?

**MA90 Exercises for section 6.3 More Trinomial Factoring
Answer Section****SHORT ANSWER**

1. ANS:

$$(3x + 1) \cdot (x + 2)$$

PTS: 1

2. ANS:

$$(4x + 7) \cdot (x - 1)$$

PTS: 1

3. ANS:

$$(7x - 6) \cdot (6x - 7)$$

PTS: 1

4. ANS:

$$(2x - 9y) \cdot (2x - 9y)$$

PTS: 1

5. ANS:

$$(4x - 3) \cdot (3x - 4)$$

PTS: 1

6. ANS:

$$(3a + 2b) \cdot (2a + b)$$

PTS: 1

7. ANS:

$$(10m - 1) \cdot (5m + 2)$$

PTS: 1

8. ANS:

$$(3x - 7y) \cdot (x + 2y)$$

PTS: 1

9. ANS:

$$(3x - 4) \cdot (4x - 7)$$

PTS: 1

10. ANS:
 $(3t - 13) \cdot (2t - 5)$

PTS: 1

11. ANS:
 $4(4x + 7) \cdot (x - 1)$

PTS: 1

12. ANS:
 $x \cdot (5x - 4) \cdot (2x - 3)$

PTS: 1

13. ANS:
 $2x \cdot (6x + 1) \cdot (x - 8)$

PTS: 1

14. ANS:
 $16x^2 - 49$

PTS: 1

15. ANS:
 $x^4 - 81$

PTS: 1