

9.2 Factor Trinomials

PRACTICE

Check the work! Multiply out the factored form to see if it matches the polynomial.

1. Is $(x + 6)(x - 5)$ the factored form of $x^2 - 3x - 30$?

$$x^2 - 5x + 6x - 30$$

$$x^2 + 1x - 30$$

NO

2. Is $(x + 4)(x - 7)$ the factored form of $x^2 - 3x - 28$?

$$x^2 - 7x + 4x - 28$$

$$x^2 - 3x - 28$$

YES

3. Is $(x - 4)(x + 3)$ the factored form of $x^2 - x - 12$?

$$x^2 + 3x - 4x - 12$$

$$x^2 - 1x - 12$$

YES

4. Is $m(m - 3)$ the factored form of $m^2 - 3$?

$$m^2 - 3m$$

NO

5. Is $(d - 7)(d - 5)$ the factored form of $d^2 - 12d + 35$?

$$d^2 - 5d - 7d + 35$$

$$d^2 - 12d + 35$$

NO

6. Is $(t + 3)(t - 3)$ the factored form of $t^2 - 9$?

$$t^2 - 3t + 3t - 9$$

$$t^2 - 9$$

YES

Factor the following if possible. Check your answer by multiplying!

7. $x^2 - 2x - 48$

$$(x - 8)(x + 6)$$

~~2~~
-2
-48
+6

CHECK:

$$(x - 8)(x + 6)$$

$$x^2 + 6x - 8x - 48$$

$$x^2 - 2x - 48 \checkmark$$

8. $x^2 + 14x + 24$

$$(x + 12)(x + 2)$$

~~12~~
+2
+24
+12

$$\text{CHECK: } (x + 12)(x + 2)$$

$$x^2 + 2x + 12x + 24$$

$$x^2 + 14x + 24 \checkmark$$

9. $m^2 - 10m + 16$

$$(m - 8)(m - 2)$$

~~-8~~
-2
+16
-2

$$\text{CHECK: } (m - 8)(m - 2)$$

$$m^2 - 2m - 8m + 16$$

$$m^2 - 10m + 16 \checkmark$$

10. $p^2 - 4p - 5$

$$(p - 5)(p + 1)$$

~~-5~~
+1
-5
+1

$$\text{CHECK: } (p - 5)(p + 1)$$

$$p^2 + p - 5p - 5$$

$$p^2 - 4p - 5 \checkmark$$

11. $x^2 - 64$

$$(x + 8)(x - 8)$$

Difference of Squares!

$$\text{CHECK: } (x + 8)(x - 8)$$

$$x^2 - 8x + 8x - 64$$

$$x^2 - 64 \checkmark$$

12. $h^2 + 3h - 54$

$$(h + 9)(h - 6)$$

~~9~~
-6
-54
+9

$$\text{CHECK: } (h + 9)(h - 6)$$

$$h^2 - 6h + 9h - 54$$

$$h^2 + 3h - 54 \checkmark$$

13. $x^2 - 8x$

Greatest

14. $x^2 + 2x + 12$

15. $x^2 - 49$

Difference of

Factoring Unit 05 Lesson 01 Answers

**Lucreda A. Hutton, Elaine V.
Alton, Joseph E. Kuczkowski**



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