

Exercises

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write *prime*.

1. $2x^2 - 3x - 2$

2. $3m^2 - 8m - 3$

3. $16r^2 - 8r + 1$

4. $6x^2 + 5x - 6$

5. $3x^2 + 2x - 8$

6. $18x^2 - 27x - 5$

7. $2a^2 + 5a + 3$

8. $18y^2 + 9y - 5$

9. $-4c^2 + 19c - 21$

10. $8x^2 - 4x - 24$

11. $28p^2 + 60p - 25$

12. $48x^2 + 22x - 15$

13. $3y^2 - 6y - 24$

14. $4x^2 + 26x - 48$

15. $8m^2 - 44m + 48$

16. $6x^2 - 7x + 18$

17. $2a^2 - 14a + 18$

18. $18 + 11y + 2y^2$

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Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write *prime*.

1. $2x^2 - 3x - 2$
 $(2x + 1)(x - 2)$

2. $3m^2 - 8m - 3$
 $(3m + 1)(m - 3)$

3. $16r^2 - 8r + 1$
 $(4r - 1)(4r - 1)$

4. $6x^2 + 5x - 6$
 $(2x + 3)(3x - 2)$

5. $3x^2 + 2x - 8$
 $(3x - 4)(x + 2)$

6. $18x^2 - 27x - 5$
 $(3x - 5)(6x + 1)$

7. $2a^2 + 5a + 3$
 $(2a + 3)(a + 1)$

8. $18y^2 + 9y - 5$
 $(6y + 5)(3y - 1)$

9. $-4c^2 + 19c - 21$
 $(4c - 7)(3 - c)$

10. $8x^2 - 4x - 24$
 $(4x - 8)(2x + 3)$

11. $28p^2 + 60p - 25$
 $(2p + 5)(14p - 5)$

12. $48x^2 + 22x - 15$
 $(6x + 5)(8x - 3)$

13. $3y^2 - 6y - 24$
 $3(y + 2)(y - 4)$

14. $4x^2 + 26x - 48$
 $2(x + 8)(2x - 3)$

15. $8m^2 - 44m + 48$
 $4(2m - 3)(m - 4)$

16. $6x^2 - 7x + 18$
prime

17. $2a^2 - 14a + 18$
 $2(a^2 - 7a + 9)$

18. $18 + 11y + 2y^2$
prime