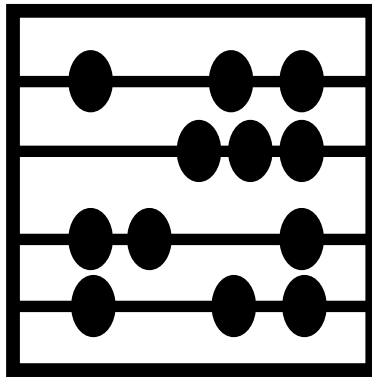

Factoring ($a = 1$)



Algebra 1

Practice Worksheet

Practice you can't find anywhere else

Copyright © 2022 Tutoring by Matthew. All rights reserved.

No part of this book may be reproduced or used in any manner without the prior written permission of the copyright owner.

www.TutoringbyMatthew.com



Factor the trinomial into binomial pairs.

Type 1: $x^2 + bx + c$

1. $x^2 + 5x + 4$

2. $x^2 + 7x + 6$

3. $x^2 + 7x + 10$

4. $x^2 + 15x + 44$

...

5. $c^2 + 9c + 18$

6. $h^2 + 15h + 56$

7. $b^2 + 21b + 108$

8. $t^2 + 25t + 154$

Type 2: $x^2 - bx + c$

9. $x^2 - 4x + 3$

10. $x^2 - 7x + 10$

11. $x^2 - 12x + 27$

12. $x^2 - 10x + 16$

...

13. $a^2 - 12a + 32$

14. $f^2 - 16f + 63$

15. $g^2 - 22g + 117$

16. $f^2 - 27f + 180$

Type 3: $x^2 - bx - c$

17. $x^2 - 4x - 5$

18. $x^2 - 13x - 14$

19. $x^2 - 6x - 16$

20. $x^2 - 7x - 44$

...

21. $w^2 - 10w - 75$

22. $h^2 - 4h - 45$

23. $v^2 - 8v - 105$

24. $u^2 - 2u - 120$

Type 4: $x^2 + bx - c$

25. $x^2 + 2x - 3$

26. $x^2 + 2x - 15$

27. $x^2 + 4x - 12$

28. $x^2 + 7x - 18$

...

29. $b^2 + 5b - 50$

30. $q^2 + q - 56$

31. $r^2 + 6r - 112$

32. $p^2 + p - 156$

Type 1: $x^2 + bx + c$

1. $(x + 1)(x + 4)$

2. $(x + 1)(x + 6)$

3. $(x + 2)(x + 5)$

4. $(x + 4)(x + 11)$

5. $(c + 3)(c + 6)$

6. $(h + 7)(h + 8)$

7. $(b + 9)(b + 12)$

8. $(t + 11)(t + 14)$

Type 2: $x^2 - bx + c$

9. $(x - 1)(x - 3)$

10. $(x - 2)(x - 5)$

11. $(x - 3)(x - 9)$

12. $(x - 2)(x - 8)$

13. $(a - 4)(a - 8)$

14. $(f - 7)(f - 9)$

15. $(g - 9)(g - 13)$

16. $(f - 12)(f - 15)$

Type 3: $x^2 - bx - c$

17. $(x + 1)(x - 5)$



18. $(x + 1)(x - 14)$

19. $(x + 2)(x - 8)$

20. $(x + 4)(x - 11)$

21. $(w + 5)(w - 15)$

22. $(h + 5)(h - 9)$

23. $(v + 7)(v - 15)$

24. $(u + 10)(u - 12)$

Type 4: $x^2 + bx - c$

25. $(x - 1)(x + 3)$

26. $(x - 3)(x + 5)$

27. $(x - 2)(x + 6)$

28. $(x - 2)(x + 9)$

29. $(b - 5)(b + 10)$

30. $(q - 7)(q + 8)$

31. $(r - 8)(r + 14)$

32. $(p - 12)(p + 13)$