

Chapter Test A

For use after Chapter 10

Factor the expression.

18. $x^2 + 3x + 2$

19. $x^2 - x - 6$

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

21. $x^2 + x - 12$

22. A rectangle has an area given by $A = x^2 + 5x + 6$. Find expressions for the possible length and width of the rectangle.**Factor the expression.**

23. $2x^2 + 5x + 3$

24. $6x^2 + 14x + 4$

25. $x^2 - 9$

26. $x^2 - 8x + 16$

27. $x^2 + 6x + 9$

28. $2x^2 - 4x$

29. $x^3 + 2x^2 - 3x - 6$

30. $x^3 + 4x^2 + x + 4$

Write a quadratic equation that has the given solutions.

31. 3 and 2

32. 1 and 3

Solve the equation by a method of your choice.

33. $x^2 - 2x - 3 = 0$

34. $x^2 + 5x + 6 = 0$

35. $x^2 + 3x - 4 = 0$

36. $x^2 - 6x + 5 = 0$

37. $6x^2 + 5x + 1 = 0$

38. $4x^2 + 15x + 9 = 0$

39. $x^2 - 36 = 0$

40. $x^2 + 12x + 36 = 0$

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

32. _____

33. _____

34. _____

34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

40. _____