

Algebra I Worksheet #6 Unit 11 Selected Solutions

Perform the indicated operations.

1. $(x + 7)(x - 7) = \underline{x^2 - 49}$

6. $(3x - 2)(3x + 2) = \underline{9x^2 - 4}$

14. $(3x + 4)^2 = \underline{9x^2 + 24x + 16}$

17. $(5x - 4)^2 = \underline{25x^2 - 40x + 16}$

Factor each of the following.

8. $36x^2 - 49 = \underline{(6x + 7)(6x - 7)}$

12. $9x^2 - 64 = \underline{(3x + 8)(3x - 8)}$

22. $64x^2 + 16x + 1 = \underline{(8x + 1)^2}$

26. $144x^2 - 120x + 25 = \underline{(12x - 5)^2}$

30. $12x^2 + x - 1 = \underline{(4x - 1)(3x + 1)}$

34. $21x^2 - 11x - 2 = \underline{(7x + 1)(3x - 2)}$

38. $8x^2 - 13x - 6 = \underline{(8x + 3)(x - 2)}$

42. $30x^2 + 53x + 5 = \underline{(10x + 1)(3x + 5)}$