Algebra I Worksheet #5 Unit 11 Selected Solutions

Perform the indicated operations.

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

14. $(5x + 3)^2 = \underline{25x^2 + 30x + 9}$
Factor each of the following.
8. $25x^2 - 1 = \underline{(5x + 1)(5x - 1)}$
22. $25x^2 + 10x + 1 = \underline{(5x + 1)^2}$
30. $4x^2 + 12x + 5 = \underline{(2x + 5)(2x + 1)}$
6. $(5x - 8)(5x + 8) = \underline{25x^2 - 64}$
18. $(4x - 7)^2 = \underline{16x^2 - 56x + 49}$
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12. $4x^2 - 81 = \underline{(2x + 9)(2x - 9)}$
26. $100x^2 - 60x + 9 = \underline{(10x - 3)^2}$
34. $7x^2 - 16x + 4 = \underline{(7x - 2)(x - 2)}$

42. $6x^2 + 5x - 4 = (3x + 4)(2x - 1)$

38. $8x^2 - 2x - 3 = (4x - 3)(2x + 1)$