Algebra I Worksheet #2   Unit 11   Selected Solutions

Perform the indicated operations.

4. $6(2x + 9) =$ ___ $12x + 54$ ___

8. $7x(3x - 7) =$ ___ $21x^2 - 49x$ ___

22. $(x + 2)(x + 7) =$ ___ $x^2 + 9x + 14$ ___

26. $(x + 5)(x - 9) =$ ___ $x^2 - 4x - 45$ ___

Factor each of the following completely.

14. $6x + 42 =$ ___ $6(x + 7)$ ___

18. $15x^2 + 18x =$ ___ $3x(5x + 6)$ ___

32. $x^2 + 7x + 12 =$ ___ $(x + 4)(x + 3)$ ___

36. $x^2 - 9x + 20 =$ ___ $(x - 4)(x - 5)$ ___

40. $x^2 - 5x - 14 =$ ___ $(x - 7)(x + 2)$ ___

44. $x^2 - 2x - 99 =$ ___ $(x + 9)(x - 11)$ ___

48. $x^2 + 10x - 56 =$ ___ $(x - 4)(x + 14)$ ___

50. $x^2 - 25x + 100 =$ ___ $(x - 20)(x - 5)$ ___