7-3 Reteach to Build Understanding

Multiplying Special Cases

1. Label each item as *square of a binomial* or *product of a sum and difference*.

   $(a + b)(a - b) = a^2 - b^2$ _____

   $(x + 7)^2 = x^2 + 14x + 49$ _____

   Square of the first term plus twice the product of the first and last terms plus the square of the last term _____

   $(a - b)^2 = a^2 - 2ab + b^2$ _____

   Results in the difference of two squares _____

   $(x - 4)(x + 4) = x^2 - 16$ _____

   $(a + b)^2 = a^2 + 2ab + b^2$ _____

2. Brian incorrectly identified two of the features of the product $(x - 5)^2$. Put an X next to any incorrect statements. Correct his errors.

   a. Use the square of a binomial pattern to find the product.

   b. The result is a difference of two squares.

   c. The first term of the product is x^2.

   d. The last term of the product is -25.

   e. The middle term of the product is $-10x$.

3. Find the product of $(2x + 6)$ and $(2x - 6)$.

   Use the Distributive Property to find the product.

   $(2x + 6)(2x - 6) = $ _____ $(2x - 6) + $ _____ $(2x - 6)$

   $= $ _____

   $= $ _____

   The product of $(2x + 6)$ and $(2x - 6)$ is _____.