

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Product of the Sum and Difference of Two Terms

A. Determine the product of the following binomials by following the given steps.

1. $(3x + 5y)(3x - 5y) = (\underline{\hspace{1cm}})^2 - (\underline{\hspace{1cm}})^2 = \underline{\hspace{2cm}}$

2. $(4a + 2b)(4a - 2b) = (\underline{\hspace{1cm}})^2 - (\underline{\hspace{1cm}})^2 = \underline{\hspace{2cm}}$

3. $(xy + 3)(xy - 3) = (\underline{\hspace{1cm}})^2 - (\underline{\hspace{1cm}})^2 = \underline{\hspace{2cm}}$

4. $(5 - 2y)(5 + 2y) = (\underline{\hspace{1cm}})^2 - (\underline{\hspace{1cm}})^2 = \underline{\hspace{2cm}}$

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

B. Find the sum and difference of the binomials given.

1. $(5x - y)(5x - y) = \underline{\hspace{2cm}}$

2. $(2a + b)(2a - b) = \underline{\hspace{2cm}}$

3. $(3m - 4n)(3m + 4n) = \underline{\hspace{2cm}}$

4. $(2s + 5p)(2s - 5p) = \underline{\hspace{2cm}}$

5. $(3j - 4k)(53j + 4k) = \underline{\hspace{2cm}}$