Adding Squares In The Form: $a^2 + b^2 - (a\text{-}b)^2$:

A. From algebra we learn:

$$a^2 + b^2 - (a\text{-}b)^2 = 2ab$$

B. Basically just multiply a and b together then double it.

C. Examples:

Ex [1] $9^2 + 3^2 - 6^2 =$ _____

   a. The answer is $2(9)(3) = 54$.

Ex [2] $(25 + 8)^2 + 25^2 - 8^2 =$ _____

   a. In this example a=33, since $25 + 8 = 33$.

   b. The answer is $2(33)(25) = 50 \times 33 = 1650$. See *Multiplying By 50*.