

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 7.1 - Evaluating Algebraic ExpressionsGiven that $a = 5$, $b = 3$, and $c = 4$, evaluate each expression.

1. $a + b - c$ $= (5) + (3) - (4)$ $= 8 - 4$ $= \textcircled{4}$	2. $a^2 + b^2$ $= (5)^2 + (3)^2$ $= 25 + 9$ $= \textcircled{34}$
3. $a^2 - b^2$ $= (5)^2 - (3)^2$ $= 25 - 9$ $= \textcircled{16}$	4. $(a + b) \cdot c$ $= (5 + 3) \cdot 4$ $= 8 \cdot 4$ $= \textcircled{32}$
5. $a^2 - b - c$ $= (5)^2 - (3) - (4)$ $= 25 - 3 - 4$ $= 22 - 4$ $= \textcircled{18}$	6. $a^2 - (b + c)$ $= (5)^2 - (3 + 4)$ $= (5)^2 - 7$ $= 25 - 7$ $= \textcircled{18}$
7. $a^2 + b^2 + c^2$ $= (5)^2 + (3)^2 + (4)^2$ $= 25 + 9 + 16$ $= 34 + 16$ $= \textcircled{50}$	8. $b^2 + (c^2 - a)$ $= (3)^2 + (4^2 - 5)$ $= 9 + (16 - 5)$ $= 9 + 11$ $= \textcircled{20}$