HW Order of Operations and Evaluating Expressions

What is the simplified form of each expression?

1. 5^2

2. 2^3

3. $\left(\frac{3}{4}\right)^2$

Evaluate each expression for $x = 3$ and $y = 4$.

4. $x^2 + 2(x + y)$

5. $(xy)^3$

6. $4x^2 - 3xy$

7. Identify the exponent and the base in 4^3.

8. A student simplifies an expression as shown below. Find the error and simplify the expression correctly.

$$23 - 8 \cdot 2 + 3^2 = 23 - 8 \cdot 2 + 9$$
$$= 15 \cdot 2 + 9$$
$$= 30 + 9$$
$$= 39 \quad ✗$$