Simplify the following:

1) 2 + 3a + 9a2) n + 4n - 7n - 1

3)
$$(7x + 5) - (3x - 2)$$

4) $-4 - 5(3x - 6)$

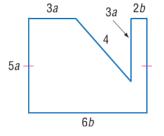
For each problem, determine if the equal sign is being used correctly. If it is, explain how you know. If it is not, write a NEW problem that does use the equal sign correctly.

5) 4 + 6 = 10 - 9 = 1 + 4 = 56) 12 - 8 = 2 + 2 = 5 - 1 = 4

For each problem, fill in the blanks so that the equal sign is being used correctly.

7) 7 + 3 = ____ + ____ = ____ - ____ = ____ × ____ = ____

- 8) 8 + _____= 12 ____= -5 + ____= 5
- 9) Write an expression and simplify to determine the perimeter of the following figure:



10) Identify the expression that is not equivalent to the other three. Explain how you know.

$$x-2+3x$$
 $4(x-2)$ $-2+7x-3x$ $4x-2$