State whether each expression *is equivalent* or *is not equivalent* to  $x^3$ . Justify your answers.

1. 3*x* 

2.  $x \cdot 3$ 

3.  $x \cdot x \cdot x$ 

4. x + x + x

5.  $x^4 - x^1$ 

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Decide whether or not the expressions in each pair are equivalent. Explain how you know.

1. 5n and 6n - 1

2. 10t - 7t and 3t

3. 2d - d and 2

4. 5x + 3y and 8xy

Name\_\_\_\_\_ Date\_\_\_\_\_

From the expressions below, select those that are equivalent to the expression:

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

For those that are equivalent, identify the specific combination of properties used to generate the equivalent expression.

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

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

7 + (5y + 2x) - 3