Name _____ Date_____

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

1. $3x$

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 $8xy$

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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.

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

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

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