

## **Exit Ticket Sample Solutions**

Write each of the following statements as a mathematical expression. State whether the expression is a linear or nonlinear expression in *x*.
1. Seven subtracted from five times a number, and then the difference added to nine times a number *Let x be a number; then,* (5*x* − 7) + 9*x. The expression is a linear expression.
2. Three times a number subtracted from the product of fifteen and the reciprocal of a number <i>Let x be a number; then,* 15 ⋅ <sup>1</sup>/<sub>x</sub> − 3*x. The expression is a nonlinear expression.*3. Half of the sum of two and a number multiplied by itself three times *Let x be a number; then,* <sup>1</sup>/<sub>2</sub>(2 + x<sup>3</sup>). *The expression is a nonlinear expression.*

## **Problem Set Sample Solutions**

Students practice writing expressions and identifying them as linear or nonlinear.





Linear and Nonlinear Expressions in x



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Linear and Nonlinear Expressions in x

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