Linear and Nonlinear Expressions Worksheets

Write each of the following statements as a mathematical expression. State whether or not the expression is linear or nonlinear.

1. The sum of four consecutive numbers

2. Four subtracted from the reciprocal of a number

3. Half of the product of a number multiplied by itself three times

4. The sum that shows how many pages Maria read if she read 45 pages of a book yesterday and $\frac{2}{3}$ of the remaining pages today

5. An admission fee of $\$10$ plus an additional $\$2$ per game

6. Five more than four times a number and then twice that sum

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Write each of the following statements as a mathematical expression. State whether or not the expression is linear or nonlinear.

1. The sum of four consecutive numbers

Let x be the first number; then, $x + (x + 1) + (x + 2) + (x + 3)$ is a linear expression.

2. Four subtracted from the reciprocal of a number

Let x be a number; then, $\frac{1}{x} - 4$ is a nonlinear expression.

3. Half of the product of a number multiplied by itself three times

Let x be a number; then, $\frac{1}{2} \cdot x \cdot x \cdot x$ is a nonlinear expression.

4. The sum that shows how many pages Maria read if she read 45 pages of a book yesterday and $\frac{2}{3}$ of the remaining pages today

Let x be the number of remaining pages of the book; then, $45 + \frac{2}{3}x$ is a linear expression.

5. An admission fee of $\$10$ plus an additional $\$2$ per game

Let x be the number of games; then, $10 + 2x$ is a linear expression.

6. Five more than four times a number and then twice that sum

Let x be the number; then, $2(4x + 5)$ is a linear expression.