

T2-15 Number _____ Name _____ Period _____

Determine if the following expressions are equivalent. Explain how you know.

1) $4x + 7$ and $2(2x + 3) + 1$

2) $3x + 2 - 8 - 10x$ and $-13x - 6$

3) $2(4x - 8)$ and $8x - 16$

4) Write an expression that is equivalent to $4 - 6x - 9 + 10x$

5) What is the volume of a rectangular prism with height of 6 in, width of 10 in, and depth of 4 in?

6) What is the area of a circle with a diameter of 12 feet?

7) What is $-2 - (-10)$?

8) What is $-4(-6)$?

9) When we are solving equations, we are looking for the value that makes two expressions equivalent. Explain, in your own words, what that means.

10) What is the one value that will make these two expressions equivalent?

$4x$ and 10