

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) Simplify the expression $4 - 6x - 9 + 10x$

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

Solve the following

6) $-12 - 22$

7) $6 + (-15)$

8) $-4 - 10 - (-15)$

Find the value of x that would make the two expressions equivalent.

9) $4x$ and 24

10) $2x$ and 21