

Simplify each expression.

1) $4x + 3 - 2(x - 5)$

2) $3(2x + 4) - 6x$

3) $2(-3x - 1) - 4$

4) Determine whether the following expressions are equivalent or not. Explain how you know.

$-4x - 3 - 5x$ and $9x - 3$

Solve the following:

5) $-\frac{3}{4} - \left(-\frac{1}{3}\right)$

6) $\frac{1}{3} \left(-\frac{3}{4}\right)$

7) $-\frac{55}{20} \div \frac{55}{20}$

8) Does 4 make these two expressions equivalent? $3x - 13$ and -3

9) Does -2 make these two expressions equivalent? $\frac{x}{2} - 3$ and -4

10) Does 7 make these two expressions equivalent? $4x + 3$ and $-2x + 45$