

Name: _____
Date: _____
Class: _____

Algebra
Unit 2
HW 2-1

1) Simplify: $\frac{1}{2}(7 - 3x) + 4x - (\frac{1}{3}x - 6)$

2) Simplify: $\frac{6x-2(4x-9)}{8-7x+6(9-2x)-10}$

3) Evaluate: $\frac{7}{2}x - 6(5 - 2x) + \frac{6-(4x-2)}{4x-2(3-6x)}$ when $x = -2$

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

5) If a rectangle has a length of $x + 9$ and a width of $x - 7$ what would an expression that could represent the area of this rectangle?

6) Simplify: $2(x - 3)(x + 9) - (2 - x)(5 - 2x)$

7) Evaluate: $\frac{x(x-4)-(x-2)(5-x)}{x^2-2x-4}$ when $x = -4$