

Name: _____
Date: _____
Class: _____

Algebra
Unit 2
HW 2-7

1) Would $x = 2$ make the following inequality true or false?

$$3x + 4 \leq 6 - 2x$$

2) Would $x = -5$ make the following inequality true or false?

$$\frac{4-2x}{3x} \geq \frac{6}{2x-3}$$

3) Solve and graph: $3x + 11 \leq 4 + 2(2 + 2x)$

4) Solve and graph: $\frac{3(2x+2)}{6} > \frac{1}{3}x + 2$

5) Solve for x ($a, b, c,$ and d are all positive number)

$$ax + b \geq cd$$

6) Solve: $6 - 4x > 18$

- 7) Two siblings Edwin and Rhea are both going skiing but choose different payment plans. Edwin's plan charges \$45 for rentals and \$5.25 per lift up the mountain. Rhea's plan was a bundle where her entire day cost \$108.

Set up and solve an inequality that will compare the two plans.