

9/18 Algebra 1 - Downing

Bellwork

$$-82 = -3(3k+2) - 4$$

$$-82 = -9k - 6 - 4$$

$$-82 = -9k - 10$$

$$\begin{array}{r} +10 \\ -72 = -9k \end{array}$$

$$\begin{array}{r} -72 = -9k \\ -9 = -9 \end{array}$$

$$\boxed{8 = k}$$

$$-7(3x-8) + 8(4x-2) = 2x + x$$

$$-21x + 56 + 32x - 16 = 3x$$

$$\begin{array}{r} 11x + 40 = 3x \\ -11x \quad -11x \end{array}$$

$$\begin{array}{r} 40 = -8x \\ -8 \quad -8 \end{array}$$

$$\boxed{-5 = x}$$

Go over HW

NWEA on wed/Thurs

Unit 1 Test on Friday

Chapter 1 Review

1) $\frac{x}{7} + 1 < 3$

~~1)~~ $\frac{x}{7} < 2$ (7)

$$x < 14$$



2) $-13 \leq \frac{-10+x}{2}$ (2)

$$-26 \leq -10+x$$

$$\begin{array}{r} +10 \quad +10 \\ -16 \leq x \end{array}$$

$$-16 \leq x$$

$$x \geq -16$$



3) $-6 \leq 2n+10 < 30$

$$\begin{array}{r} -10 \quad -10 \quad -10 \\ -16 \leq 2n < 20 \end{array}$$

$$\begin{array}{r} -16 \leq 2n < 20 \\ 2 \quad 2 \quad 2 \end{array}$$

$$-8 \leq n < 10$$



Write the inequality



$$x \leq -2 \text{ OR } x > 4$$

5) Simplify

$$-2\sqrt{54}$$

$$\begin{array}{c} \sqrt{3} \quad \sqrt{3} \quad \sqrt{2} \quad \sqrt{2} \\ \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \\ \sqrt{3} \quad \sqrt{3} \quad \sqrt{2} \quad \sqrt{2} \end{array}$$

$$-2 \cdot 3 \sqrt{3 \cdot 2} = \boxed{-6\sqrt{6}}$$

★ Test Review

Answer Key on Website