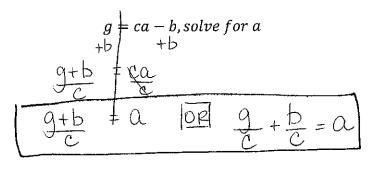
Unit 2 Quiz Review Homework

1. Solve.

$$p-1 = 5p + 3p - p - 1 = 8p - 8$$
 $-p = -1 = 7p - 8$
 $-1 = 7p - 8$
 $+8 = 7p$
 $-1 = 7p$

2. Solve for the given variable.



3. Solve and graph your answer.

$$-3 - 6(4x + 6) > -111$$

4. Solve for the given variable.

$$u = \frac{k}{a}$$
 solve for a

$$a \cdot u = \frac{K}{a} \cdot a$$

$$\frac{ua = K}{u}$$

$$0 = K$$

$$u$$

Given:
$$3(5x + 1) = 13x + 5$$

Prove: x = 1

3(5x+1) = 13x + 5	Given
15x + 3 = 13x + 5	Distributive Prop
15x (-13x) + 3 = 13x + 5(-13x)	Subtraction Prop of =
2x + 3 = 5	Substitution
2x + 3(-3) = 5(-3)	Subtraction Prop ot =
2x = 2	Substitution
(2)=(2)	Division Propof =
x = 1	Substitution

6. Name the property.

a)
$$x + y = y + x$$

commutative

b)
$$100 * 0 = 0$$

mult. prop. of zero

c)
$$15c + 15d = 15(c + d)$$

distributive prop

d) If
$$x + y = 3$$
, then $3 = x + y$

symmetric prop

e)
$$6 = 6$$

reflexive prop

7. Keith has \$500 in a savings account at the beginning of the summer. He wants to have at least \$200 at the end of the summer. He withdraws \$25 per week for food, clothing, and movie tickets. How many weeks can Keith withdraw money from his account?

Write an inequality to represent the situation.

500 - 25W ≥ 200 - 500 - 500

Solve.

$$\frac{-25W}{-25} \ge \frac{-300}{-25}$$

W = 12

Explain your answer.

Keith can withdraw money for 12 weeks or less to meet his goal of having at least \$200 at the end of summer.