1. Linear equation and inequalities page 5-6

Algebra 1: Linear Equations and Inequalities

DELANO HIGH

Assignment

1. Evaluate the expression below.

$$9-3(5-y)$$
 if $y = -4$
 $9-3(5-4)$
 $9-3(9)$
 $9-27$
 $1-18$

2. Simplify the expression.

3. Simplify the expression.

$$5x-11-4x-2$$
 1×-13

Translate the following:

The product of a number and two, decreased by five.

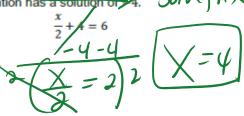


5. Solve: -5 + 6x = -29

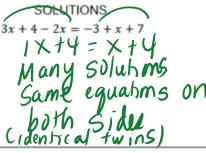
$$\frac{45}{6x} = -24$$

$$\frac{6x}{6} = -24$$

6. Which equation has a solution of 4. Solven



7. Show that the equation has INFINIELTY MANY



8. Find the value of x to make the equation true.

$$-5(4x+5) = 35$$

$$-20x - 35 - 35$$

$$-20x = 60$$

$$-20 = 20$$

$$= 20$$

$$= 20$$

9. Solve the following equation.

$$-4y+3+9y=13$$

$$5y+3=13$$

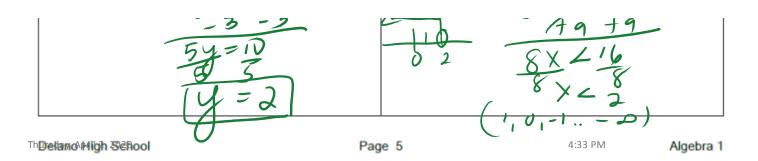
$$-3-3$$

$$5y=10$$

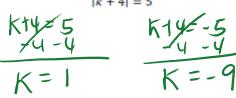
10. Find the solution to the inequality below.

$$8x - 5 - 4 < 7$$



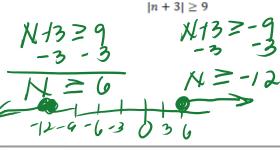


- 12. Find the solution or solutions to: |k + 4| = 5

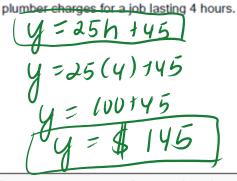


- 13. Find the solution or solution to: |8h 4| = 20
- 8H-4=20 14 14 8H=24 8H=-16 8H=-16 8H=-2 H=-2

14. Find the solution to:

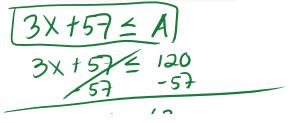


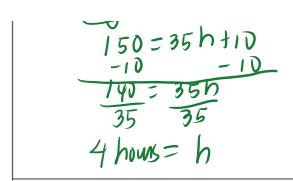
- less and 15. Find the solution to:
- 16. A plumber charges \$45 for a house call plus \$25 for each hour worked. Let h represent the number of hours worked. Write the expression that shows how much a plumber charges for a job. Then find how much the

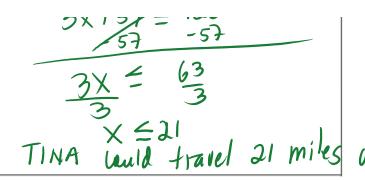


 Mark charges \$10 for his consulting services plus \$35 for each hour he works. On one job, he charged \$150.
 Write the equation for this situation. For how many hours

18. Tina wants to rent a car for a week and to pay no more than \$120. How far can she drive if the car rental costs \$57 a week plus \$3 a mile?







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