READY, SET, GO!

Name

Period

Date

READY CW D3

Topic: Writing linear equations in standard form and slope-intercept form.

Rewrite the given equation so that they are in slope-intercept form. (y = mx + b)

1.
$$7x - 14y = -56$$
 2. $-8x - 2y = 6$

$$2. -8x - 2y = 6$$

3.
$$15x + 9y = 45$$

Rewrite the given equations so that they are in standard form.

(Ax + By = C, where A, B, and C are whole numbers and A is positive.)

4.
$$y = 7x - 3$$

5.
$$y = 2x + 9$$

6.
$$y = -4x - 11$$

7.
$$y = \frac{1}{2}x + 8$$

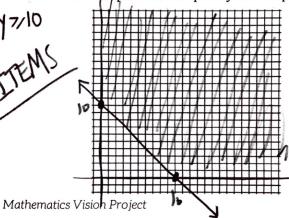
$$8. \ y = \frac{3}{5}x - 2$$

8.
$$y = \frac{3}{5}x - 2$$
 9. $y = -\frac{1}{6}x + \frac{2}{3}$

SET CW D3

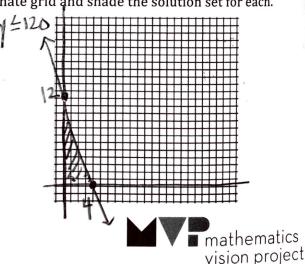
Topic: Writing inequalities from a real world problem. Graphing inequalities.

- [0. On a final for a creative writing course, Ben was required to write a combination of at least 10 poems or paragraphs. Ben knew that each poem would take him 30 minutes to write while a paragraph would only take 10 minutes. Ben was given two hours to complete the exam.
 - a. Write an inequality to model each constraint. (Hint: One constraint is time and the other is the number of needed items. Let x be the number of poems written and y be the number of paragraphs written.)
 - b. Graph each inequality on a separate coordinate grid and shade the solution set for each.



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1) 5.4 Ready - CW D3
2) -8x-2y=6 3 15x+9y=45 7x-14y= -56 $y = -\frac{5}{3} \times +5$ Y= = x+4 (5) y = 2x + 9(b) y=-4x-11 (4) y= 1x-3 -7x+y=-3 2x-y=-94x+y=-11 $y = \frac{1}{2}x + 8$ $8 = \frac{3}{5}x - 2$ $9 = \frac{1}{6}x + \frac{2}{3}$ $-2\left(-\frac{1}{2}x+y=8\right)$ $-5\left(-\frac{3}{5}x+y=-2\right)$ x - 2y = -16 3x - 5y = 10X+64=4 (1g)

GO CM D3

Topic: Substituting a value to check if it's a solution

aviz

Determine whether h = 3 is a solution to each problem.

11.
$$3(h-4) = -3$$

 $3(3-4) = -3$
 $3(-1) = -3$
 $-3 = -3$

12.
$$3h = 2(h+2)-1$$

 $3(3) = 2(3+2)-1$
 $9 = 2(5)-1$
 $9 = 9$

13.
$$2h-3=h+6$$
 10 $2(3)-3=3+6$ $6-3=9\times$

14.
$$3h > -3$$

 $3(3) 7 - 3$
 $9 7 - 3$

15.
$$\frac{3}{5} \le h \times \frac{1}{5}$$

$$\frac{3}{5} = \frac{3}{5} \times \frac{1}{5}$$

16.
$$\frac{3}{5} > h \times \frac{1}{6}$$
 $\frac{3}{5} > 7 \cdot \frac{1}{2}$

Determine the value of x that makes each equation true.

17.
$$4x - 2 = 8$$

$$4x = 10$$

$$x = 5$$

$$2$$

18.
$$3(x+5) = 20$$

 $3x + 5 = 20$
 $3x = 5$
 $x = 5$

20.

19.
$$2x + 3 = 2x - 5$$
 $3 \neq -5$

No solution

$$4(6x-1) = 3(8x+5) - 19$$

$$24x-4 = 24x+15-19$$

$$-4 = -4$$
all solutions
$$x \mid x \in \mathbb{R}$$