Form A ~ minimum day version



Show work for full credit. Circle, box, or highlight your answers.

Questions are worth 5 points each; the total will be converted to an equivalent score out of 100.

Identify the slope of the line passing through the given points

$$\frac{y_2 - y_1}{y_2 - y_1} \Rightarrow \frac{8 - 5}{-1 - 3} = \frac{3}{-4} = \frac{3}{4}$$

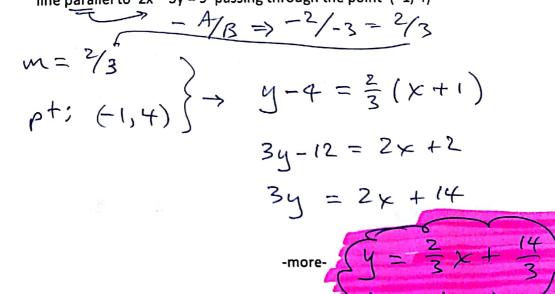
Write an equation in slope-intercept form for each line described below

2.
$$m = -3$$
; passes through $(-3, 5)$

$$y-5=-3(x+3)$$

 $y-5=-3x-9$
 $y=-3x-4$

3. line parallel to 2x - 3y = 9 passing through the point (-1, 4)

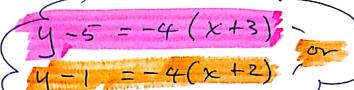


For #4-6, a line passes through the points (-3, 5) and (-2, 1).

$$\frac{1-5}{-2+3} = -\frac{4}{1}$$

4. Write the equation for this line in point-slope form

$$m = -4$$
 $pt; (-3,5)$



Convert the equation for this line to slope-intercept form 5.

$$y - 5 = -4 \times -12$$
Convert the equation for this line to standard form

$$4x + y = -7$$

For #7-8, write the transformation of the graph of y = f(x) that has been ...

translated 4 units right, and 5 units down 7.

$$y = f(x - 4) - 5$$

translated 3 units left, reflected across the x-axis 8.

$$y = -f(x+3)$$

Write the equation for the absolute value function with a vertex at (-3, 4) and 9. a steepness factor of -3.

pness factor of
$$-3$$
. $y = -3 \times +3 +4$

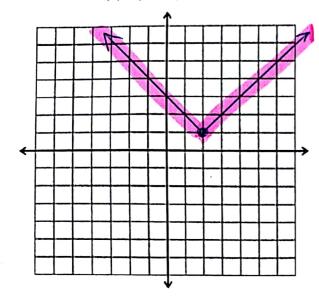
10. Without graphing, identify the vertex and axis of symmetry for the equation y = 4|x + 5| - 6

axis of symmetry:
$$\chi = -5$$

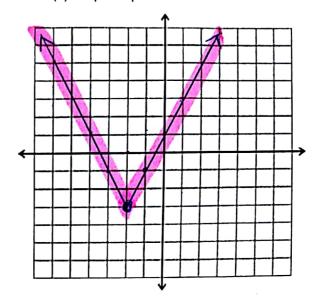
-more-

Graph each inequality

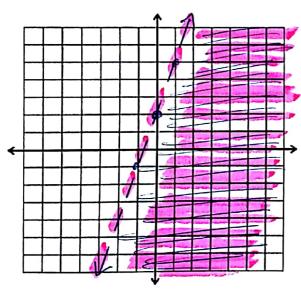
11.
$$f(x) = |x-2| + 1$$



12.
$$f(x) = 2|x + 2| - 3$$



13.
$$y < 3x + 2$$



14.
$$y \ge \frac{3}{4}x + 1$$

