Lesson 8: Standard Form of Linear Equations Worksheet Explain questions with stars next to question numbers. Identify if each of the following are linear equations, if they are put them in standard form and if they are not a linear equation.

1) 
$$3xy + 7 = 15$$

2) 
$$4x + 5y = -3$$

3) 
$$-5x + 8y = 12$$

4) 
$$5x = 6y - 4$$

5) 
$$\frac{1}{2}x + 3y = 4$$

6) 
$$12 - 4x = 8y$$

$$(7)$$
  $5x^2 + 3 = 8y$ 

8) 
$$\frac{5}{y} + 6 = 8x$$

$$\begin{array}{cc}
& & \circ f \\
& & \chi + \partial \gamma = 3 \\
9) & \frac{y}{4} = -3
\end{array}$$

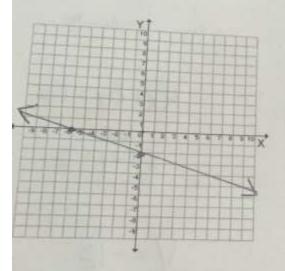
Solve algebraically for the x and y intercepts and write the intercepts as ordered pairs.

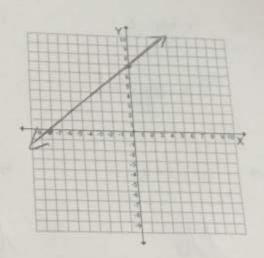
$$10) 5x + 8y = -40$$

$$\bigstar 11) \qquad -2x - 3y = 30$$

12) 
$$3x + 4y = 0$$

14) 
$$-7x + 8y = 56$$





) Mr. Osaer threw a party for all of his students. The 9 lbs that were left when they were finished were left side to melt. The ice cream melts at a rate of 1.5 gallons per hour.

