## Station \#1

Identify the slope and $y$-intercept for each equation. Say whether the line is increasing or decreasing.

1. $y=2 x-7$
2. $\mathrm{y}=-\frac{1}{3} x+3$
$3 . y=-2 x-\frac{3}{4}$
3. $y=-3 x+\frac{5}{6}$
4. 



6.

## Station \#2

Write the slope-intercept form of the equation.

1. Slope: $4 \quad y$-intercept: -3
2. Slope: $-\frac{2}{5} \quad$ y-intercept: 2
3. Slope: $0 \quad y$-intercept: -1
4. Slope: $\frac{5}{9} \quad y$-intercept: 0
5. Bob works for a sales company and earns $\$ 1200$ a month. He also earns $\$ 50$ for every sale that he makes. Write an equation to represent Bob's monthly salary.
6. Sally is in the business of making cakes. The equipment she bought cost her $\$ 500$. She is able to charge $\$ 25$ per cake sold. Write an equation to represent her profits.

## Station \#3

Answer the following questions on your answer sheet.

There is currently 9 inches of snow on the ground. With the thunderstorms today the snow will melt at a rate of 1.5 inches per hour.

1. Write an equation to represent how much snow is on the ground.
2. Graph the equation from \#1.
3. What do the slope and y-intercept mean?
4. After how many hours would all of the snow be melted? Show all of your work.
5. Make a table of this situation to show when all of the snow would be melted.

## Station \#4

Answer the following questions on your answer sheet.

Student council is selling T-shirts during spirit week. It costs $\$ 15$ for the design and $\$ 5$ to print each shirt.

1. Write an equation to represent the cost of making the shirts.
2. Graph the equation from \#1.
3. What do the slope and y-intercept mean?
4. What would it cost for the student council to print 350 shirts? Show all of your work.
5. Make a table of this situation for 7 shirts.

## Station \#5

Graph each of the given equations on the graphs provided on your answer sheet. Remember! $\frac{4}{5}=\frac{-4}{-5}$

1. $y=x-4$
$2 . \mathrm{y}=-\frac{2}{3} x+4$
$3 . y=2 x-3$
2. $y=\frac{3}{4} x+3$
3. A line with a slope of negative 4 and a $y$ intercept of 0 .
4. A line with a slope of $\frac{1}{2}$ and a $y$-intercept of 4.
