## MONTGOMERY COLLEGE <br> Department of Mathematics <br> Rockville Campus

## 

 NE $\qquad$ 1. For the tres proa lies:


Stope of line A is $\qquad$ Slope of line Cis ZERO
2. Write the Slope - intercept form no through

$$
\text { The points } \quad(-10,-9)
$$

(15).

$$
\begin{aligned}
m & =\frac{-15--9}{-12--10}=\frac{-15+9}{-11+10}=-23 \\
y & =m x+b \\
-9 & =3(-10)+b \\
-9 & =-30+b \quad, y=3 x
\end{aligned}
$$

3. Wite a shale linear equal $\mathrm{h} y=\mathrm{y}=\mathrm{b}$ for m if (b) Drown dis.
a. has a negev. stope i
b. has a positive y-iftercept, it

$$
y=-50 x+100
$$

c. would be considered a ste pice:
4. For the rations described below, minis Wi the relations is a lunation and Wi f it is not.

$$
\begin{aligned}
& \text { A. } \begin{array}{l}
y=4 x-3 y+8 \\
-+3 y+3 y
\end{array} \\
& \frac{y=y+8}{y-x+2)}
\end{aligned}
$$

c.

B.

5. Write the slope - inter c


$$
\begin{array}{r}
m=\frac{4-2}{0--3}=\frac{2}{3} \\
y=\frac{2}{3} x+4
\end{array}
$$

6. ever the Graph of $\mathrm{F}(\mathrm{P})$
 Estimate the following:
(2) $F(4)=1$
b) The $X$ value so that $F(X)=-1$


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MA 103
KATIRAIE QUIZ \#2 Form B SECTIONS (2.1, 2.2, 2.3) Spring 2007

## NAME

$\qquad$ SCORE: / 20

1. For the relations described below, mark $\mathbf{F}$ if the relations is a function and $\mathbf{N}$ if it is not.
A. $\quad y=4 x-3 y+8$
$\frac{+3 y+3 y \text { Function }}{4 y=4 x+8}$
B. $x+5=9$

C. $y=x+2$
D.

2. Write the Slope - intercept form for a line passing through the points $\quad(-10,-9)$ and ( $-12,-15$ ).

$$
m=\frac{-15--9}{-12--10}=\frac{-6}{-2}=3
$$

$y=m x+b$
$-9=3(-10)+b$
$y=3 x+21$
$-9=-30+b \Rightarrow b=21$
3. Write a single linear equation in $y=m x+b$ form with all of the following properties:
a. has a negative slope,
b. has a positive $y$-intercept, and

$$
y=-50 x+100
$$

c. would be considered a steep line.
4. Write the slope - Intercept coral For a line passing through


$$
m=\frac{4-2}{\frac{-3}{y-2}=\frac{2}{3}} \quad \text { yinthent is }(0,4)
$$

5. Given the Caph of (A)


$$
F(4)=1
$$

b) The $X$ value so that $f(x)=-1$
6. For the lines sieving bis iv state whither the slope of the the is positive, negative or zero in the blank provided.


Slope of line Ats $\qquad$ Pontine
Slope of line CIs $\qquad$ Zero Sole of line 0 y. $\qquad$ Pontine streak med $b$ is. $\qquad$ Nesatilue

