1. What number is the slope of the line $y-1=-2(x+4)$ ?
A) -1
B) -2
C) 2
D) 4
2. What are the coordinates of one point on the line $y-1=-2(x+4)$ ?
A) $(-4,-1)$
B) $(-4,-1)$
C) $(4,1)$
(D) $(-4,1)$
3. Refer to the line $y+3=-\frac{3}{4}(x-2)$.
a) What is the slope?

$$
\text { Slope }=-\frac{3}{4}
$$

b) What are the coordinates of the point?

$$
\text { Point }(2,-3)
$$

c). Graph the line.

4. Write the equation for each line in
a) Slope-point form
b) Slope-intercept form
(i)

$y-5=-\frac{2}{3}(x+3)$ AND $y=-\frac{2}{3} x+3$
5. The graph of $y=\frac{2}{3} x+6$ is given. Write an equation for the line that passes through $A(-4,1)$ and is perpendicular to the line $y=\frac{2}{3} x+6$.

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

(ii)


$$
y-4=2(x-1) \text { AND } y=2 x+2
$$


6. A line passes through $P(-3,4)$ and $Q(3,-6)$. Write the equation of the line in slope-point form.

$$
y-4=-\frac{5}{3}(x+3) \quad \text { OR } \quad y+6=-\frac{5}{3}(x-3)
$$

7. Write each equation in general form.
a) $y=2 x-1$
b) $y=-\frac{1}{3} x+4$
$2 x-y-1=0$

$$
x+3 y-12=0
$$

8. A line passes through $F(-1,8)$ and has slope -3 . Write the equation of the line in
a) slope point form.
b) general form.

$$
y-8=-3(x+1)
$$

$$
3 x+y-5=0
$$

9. Refer to the equation of a line $3 x+4 y-16=0$.
a) Write the equation in slope-intercept form.

$$
y=-\frac{3}{4} x+4
$$

b) What is the slope of the line?

c) What is the y-intercept of the line? 4
d) Graph the line using the slope and y-intercept.

10. Refer to the equation of a line $3 x-2 y+12=0$.
a) Determine the x-intercept.

$$
(4,0)
$$

b) Determine the $y$-intercept.

$$
(0,6)
$$

c) Graph the line using the intercepts.


