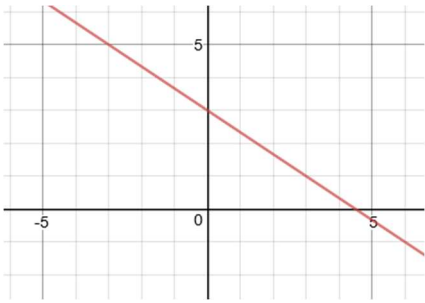


Name : _____

Exercise 5.4

1. Write the equation of the line in point slope form and slope intercept form

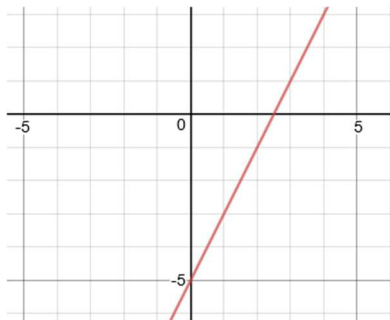
a)



i) point slope form

ii) slope intercept form

b)



i) point slope form

ii) slope intercept form

2. Write the equation of a line that passes through the point $A(5, -3)$ and is parallel to the line $y = -\frac{1}{2}x + 2$.

a) point slope form

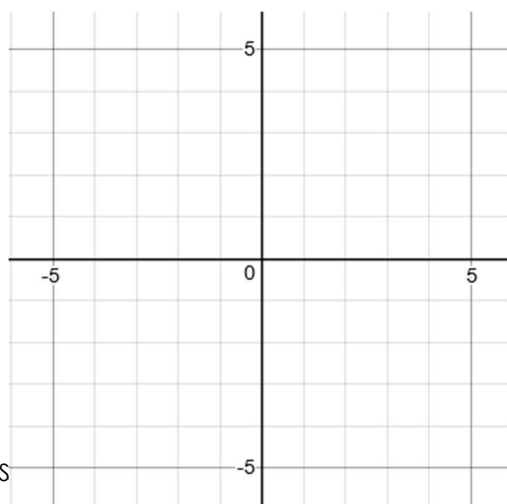
b) slope intercept form

3. Write the equation of a line passing through the point $A(-1, 4)$ and is perpendicular to the line $y = \frac{2}{3}x + 6$.

a) point slope form

b) slope intercept form

c) Graph the line



4. Write the equation for each line

a) An x-intercept of 4 and parallel to the line $y = \frac{3}{5}x - 7$.

i) point slope form

ii) slope intercept form

b) The line passes through the point $F(4, 1)$ and is perpendicular to a line that has an x-intercept of 3 and a y-intercept of 6.

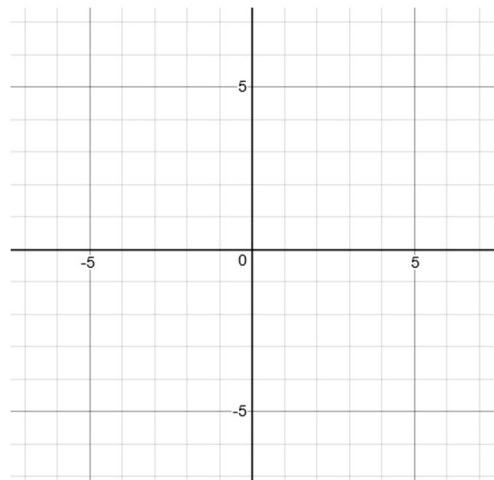
i) point slope form

ii) slope intercept form

5. Write the equation of a line that passes through the given points. Write the equation in point slope form and slope intercept form. Graph the line.

$A(-4, 7)$ and $B(5, -2)$

i) point slope form



ii) slope intercept form