Equation of a Line

Find the equation of a line for the given x-intercept and y-intercept.

1) x-intercept = $\dfrac{3}{4}$; y-intercept = $\dfrac{1}{4}$

2) x-intercept = 3 ; y-intercept = –1

3) x-intercept = 7 ; y-intercept = 9

4) x-intercept = –5 ; y-intercept = –5

Complete the table.

Q.No	x-intercept	y-intercept	Equation of a Line
1)	–1	2	
2)	4	8	
3)	$\dfrac{2}{3}$	$\dfrac{5}{6}$	
4)	–2	–3	
5)	6	–1	
6)	–5	$\dfrac{1}{2}$	

Equation of a Line

Answer key

Find the equation of a line for the given x-intercept and y-intercept.

1) x-intercept = $\dfrac{3}{4}$; y-intercept = $\dfrac{1}{4}$

4x + 12y = 3

2) x-intercept = 3 ; y-intercept = −1

x − 3y = 3

3) x-intercept = 7 ; y-intercept = 9

9x + 7y = 63

4) x-intercept = −5 ; y-intercept = −5

x + y = −5

Complete the table.

Q.No	x-intercept	y-intercept	Equation of a Line
1)	−1	2	**2x − y = −2**
2)	4	8	**2x + y = 8**
3)	$\dfrac{2}{3}$	$\dfrac{5}{6}$	**15x + 12y = 10**
4)	−2	−3	**3x + 2y = −6**
5)	6	−1	**x − 6y = 6**
6)	−5	$\dfrac{1}{2}$	**x − 10y = −5**