

Name: .....

Date: ..... Score: .....

## Finding $x$ - and $y$ -intercepts Practice Worksheet

Find the  $x$  and  $y$ -intercepts of the linear equations given below

1  $3x + 4y = 12$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

2  $7x + 3y = -21$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

3  $x + 2y = -2$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

4  $-2y + x = 4$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

5  $x - 9y = -45$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

6  $y = x - 14$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

7  $x + 2y = 5$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

8  $-5x + 2y = 10$

$x$ -intercept: (\_\_\_\_, \_\_\_\_)

$y$ -intercept: (\_\_\_\_, \_\_\_\_)

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# Finding $x$ - and $y$ -intercepts Practice Worksheet

## Answers

1  $3x + 4y = 12$

$x$ -intercept: ( 4 , 0 )

$y$ -intercept: ( 0 , 3 )

2  $7x + 3y = -21$

$x$ -intercept: (  $-\frac{9}{7}$  , 0 )

$y$ -intercept: ( 0 , -3 )

3  $x + 2y = -2$

$x$ -intercept: ( -2 , 0 )

$y$ -intercept: ( 0 , -1 )

4  $-2y + x = 4$

$x$ -intercept: ( 4 , 0 )

$y$ -intercept: ( 0 , -2 )

5  $x - 9y = -45$

$x$ -intercept: ( -45 , 0 )

$y$ -intercept: ( 0 , 5 )

6  $y = x - 14$

$x$ -intercept: ( 14 , 0 )

$y$ -intercept: ( 0 , -14 )

7  $x + 2y = 5$

$x$ -intercept: ( 5 , 0 )

$y$ -intercept: ( 0 ,  $\frac{5}{2}$  )

8  $-5x + 2y = 10$

$x$ -intercept: ( -2 , 0 )

$y$ -intercept: ( 0 , 5 )