4. Write a function in the form $y = mx + b$ for the line that contains the points (−8.3, −5.2) and (6.4, 9.5).

$\frac{9.5 + (+5.2)}{6.4 + (+8.3)} = \frac{14.7}{14.7} = 1 = m$

$9.5 = 6.4(1) + b$
$9.5 = 6.4 + b$
$-6.4 \quad -6.4$
$3.1 = b$

$y = 1x + 3.1$

5. The data in the table below represent a linear relationship. Fill in the missing data.

x	10	20	30	40
y	10	15	20	25

7. A line passes through the points (4, 19) and (9, 24). Write a linear function in the form $y = mx + b$ for this line.

$\frac{24 - 19}{9 - 4} = \frac{5}{5} = 1 = m$

$24 = 9(1) + b$
$24 = 9 + b$
$-9 \quad -9$
$15 = b$

$y = 1x + 15$

11. The graph of the line represents the cost of renting a kayak. Write a linear function in the form $y = mx + b$ to represent the relationship of the total cost, c, of renting a kayak for t hours.

$y = 3x + 7$