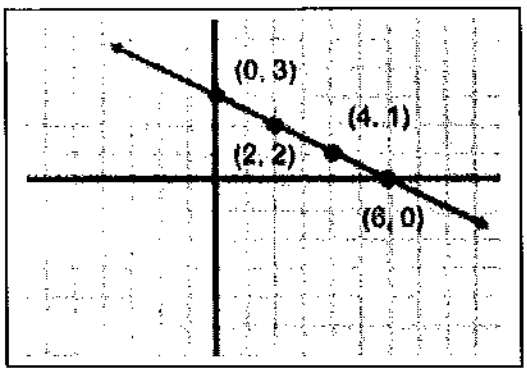
Learning Outcomes Covered:

4F: I can understand how to interpolate and extrapolate data from linear relations.

CONTENT Assessment Questions:

1. This graph represents a linear relation.

a) Determine the value of y for each value of x.



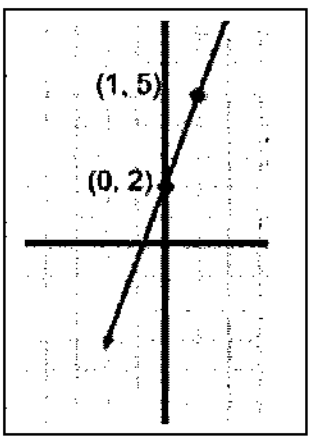
i) $x = 2$ $y = 2$

ii) $x = 8$ $y = -1$

iii) $x = -6$ $y = 6$.

For which part(s) did you use interpolation? i & ii Extrapolation? iii

b) Determine the value of x for each value of y.



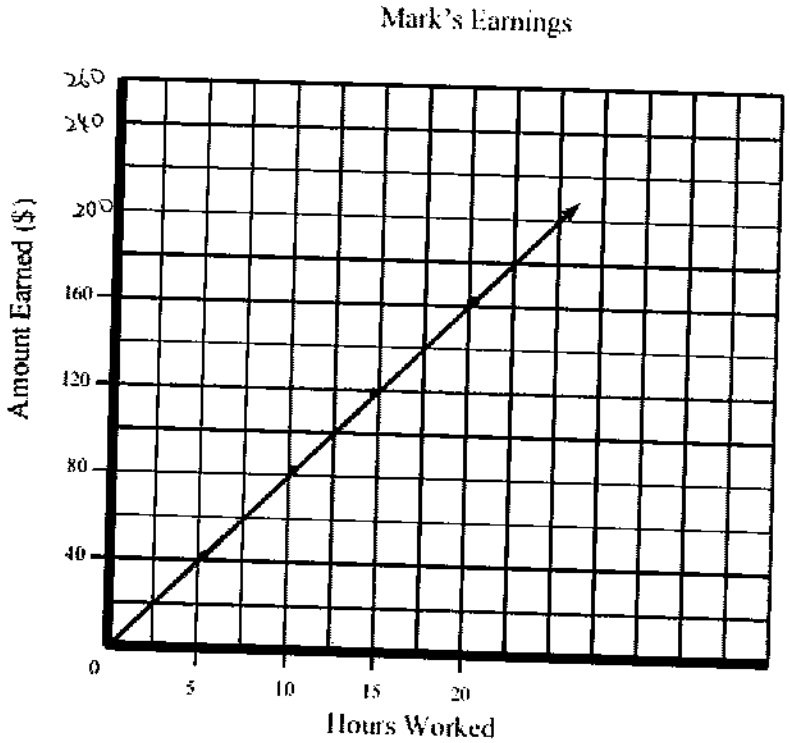
i) $y = -1$ $x = -1.2$

ii) $y = -7$

iii) $y = 3$ $x = 1.2$

For which part(s) did you use interpolation? i & iii Extrapolation? ii

2. Use the graph to answer each of the following questions. State whether you used interpolation or extrapolation to find the answer.



a. How many hours did Mark have to work to earn $120?

15 hours, interpolation.

b. How many hours did Mark have to work to earn $260?

32.5 hours, extrapolation.

c. How much would Mark have earned if he worked 12 hours?

$96, interpolation.

ONGOING LEARNING ACTIVITIES:

CORE: Page 196: Curricular Competencies: 11, 13
Content: 4, 5, 6, 7, 8, 9, 12
ADVANCED: Page 198: 15