

Date: _____

Part A: Multiple Choice Answer

1. The slope of a line is $\frac{3}{7}$ and it passes through point (7, 8).

What is the equation of line L?

A) $y = \frac{3}{7}x + 5$

C) $y = \frac{3}{7}x + \frac{25}{7}$

B) $y = \frac{3}{7}x + 11$

D) $y = 5x + \frac{3}{7}$

Part B: Short Answer

2. A line in the Cartesian plane has the following characteristics:

♦ Its x-intercepts is 8.

Its y-intercept is -24.

What is the slope of this line?

3. Identify the slope and y-intercept, then write the equation of line AB (4marks):

A (-2 , 29.5)

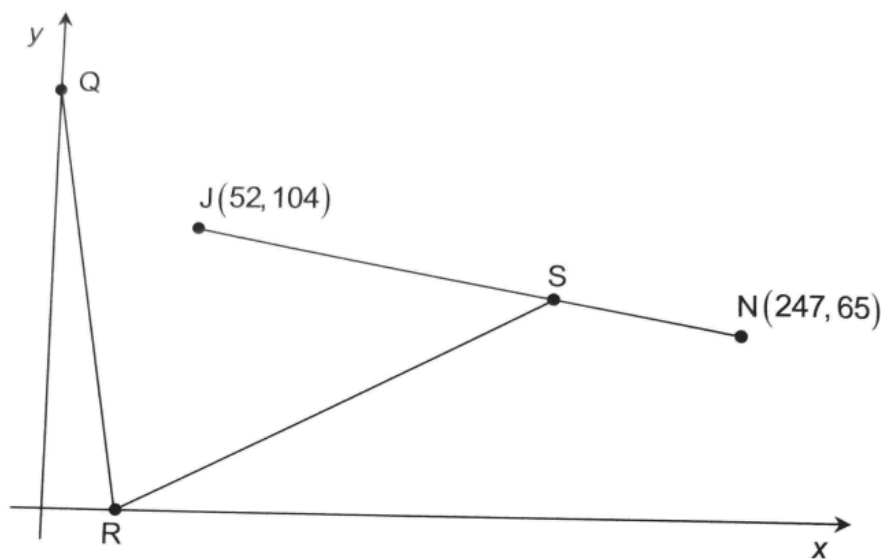
B (7 , - 42.5)

Slope

Y - int

Equation

3. Line segments JR, QR and RS are represented below in the Cartesian plane.



- From point J, point S is located $\frac{2}{3}$ of the way along the line segment JN.
- Point Q is on the y – axis
- Point R is on the x – axis
- The equation associated with line segment QR is $y = -6x + 156$.

What is the equation associated with the line segment RS?