A(56, 54)

C(56, 9)

B(8, 33)

1)

Line $\ell_1$	The slope of line $\ell_1$ is 2. The <i>x</i> -intercept of line $\ell_1$ is $-5$ .
Line $\ell_2$	Points (0, 12) and ( $-4$ ,0) are on line $\ell_2$ .
Line $\ell_3$	The equation of line $\ell_3$ is $20x - 5y + 70 = 0$ .
Line $\ell_5$	?
Line $\ell_7$	Line $\ell_7$ is parallel to the line $\frac{x}{5} + \frac{y}{-40} = 1$ .

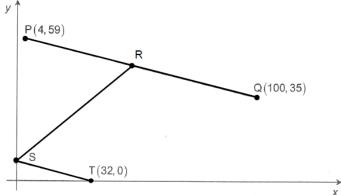
What is the equation of line  $\ell_s$  in this series?

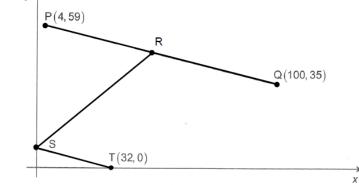
2) Points A(56, 54), B(8, 33) and C(56, 9) are the vertices of a triangle. Segment AH is an altitude of this triangle.

 $A_{\Delta} = \frac{b \cdot h}{2}$ What is the area of triangle ABC?

- 3) In the Cartesian plane below,
  - PQ // ST
  - point R is located halfway between points P and Q
  - the equation associated with line segment PQ is  $y = -\frac{1}{4}x + 60$
  - point S is on the y-axis

What is the length of line segment SR?





- 4) The equation of line  $\ell$  in the Cartesian plane is 25x + 40y - 604 = 0. What is the y-intercept of this line?
- 5) Point P (7, -23) is on line PV in the Cartesian plane. The slope of line PV is greater than 0.

Which of the following statements is true?

- The x-intercept of line PV is less than zero, and its y-intercept is less than zero.
- The x-intercept of line PV is less than zero, and its y-intercept is greater than zero. B)
- The x-intercept of line PV is greater than zero, and its y-intercept is less than zero. C)
- The x-intercept of line PV is greater than zero, and its y-intercept is greater than zero.