L sheet 1

First: Algebra

Q. 1

Find the slope of the line passing through the points $A(2, -1)$ and $B(4, 5)$.

Q. 2

In each case, identify the line as vertical, horizontal, or oblique. If the line is oblique, state whether it is falling or rising.

a) $2y + x = 10$ b) $3y = 0$ c) $2x = 0$ d) $4x - y = 20$

Second: Geometry

Q. 1

a) In $\triangle PQR$, $\overline{PQ} \cong \overline{QR} \cong \overline{PR}$.
If m$\square R =$ $(2x - 42)$ what is the value of x ?

b) $\triangle ABC$ has three congruent sides. If m$\square BCA =$ $(5x)°$, find the value of x?

Q. 2

a) A nonagon has 9 sides.
The measure of an exterior angle of a regular nonagon is $x°$. What is the value of x?

b)

In the triangle below, m$\square R$ _____.