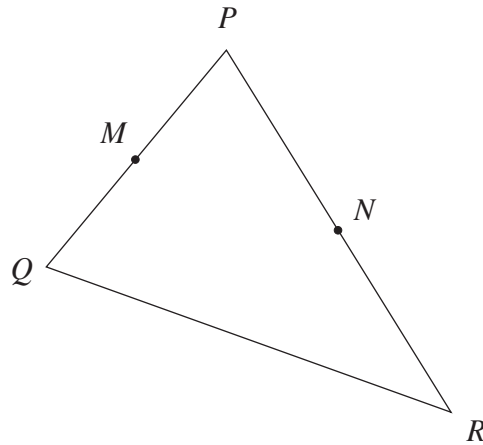


21. The diagram shows a triangle  $PQR$ .



*Diagram not drawn to scale.*

The points  $M$  and  $N$  are the mid-points of  $PQ$  and  $PR$  respectively.

(a) Given that  $PQ = 2x$  and  $PR = 2y$  find the following in terms of  $x$  and  $y$  in their simplest forms.

(i) **QR**

.....

(ii) **MN**

.....

[2]

(b) State the geometrical relationships between  $QR$  and  $MN$ .

.....

.....

[2]