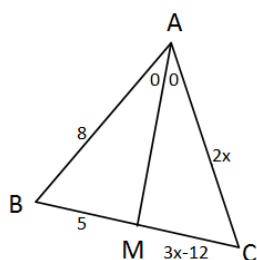


Name: _____

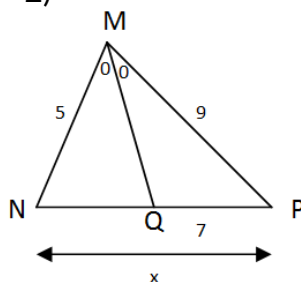
Proportions and Similar Triangles

Exercise 1: Find the value of x

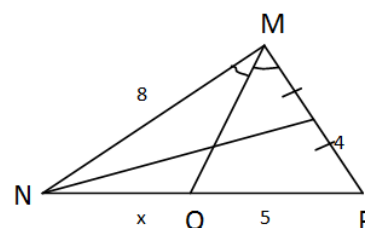
1)



2)



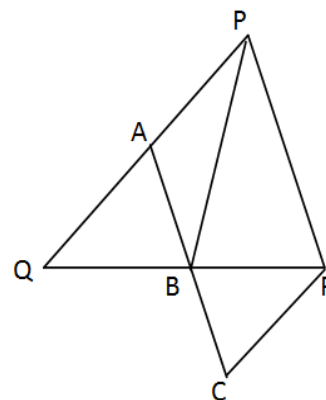
3)



Exercise 2: Let I be the point of intersection of the bisectors of triangle ABC . Prove that if \overline{AI} is produced to meet \overline{BC} at X , then $\frac{IX}{IA} = \frac{BC}{AB + AC}$

Exercise 3: Given: PB bisects $\angle P$ and A is the midpoint of \overline{PQ} . $RC \parallel PQ$ and meets AB produced, at C . Write down the value of the ratio $\frac{QB}{BR}$ in two different ways

and Show that $RC = \frac{1}{2} PR$



Exercise 4: In the adjacent figure, $AB = 15$, $MB = 6$, $AC = 25$, and $AN = 15$. Is $MN \parallel BC$? Justify your answer.

