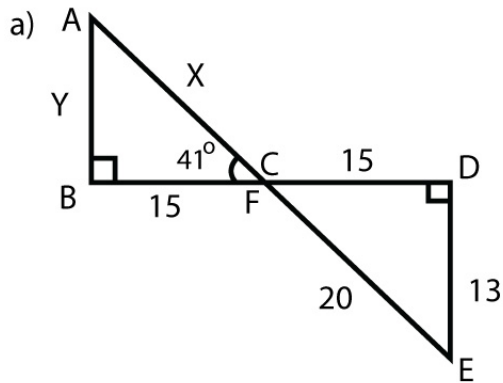


Name :

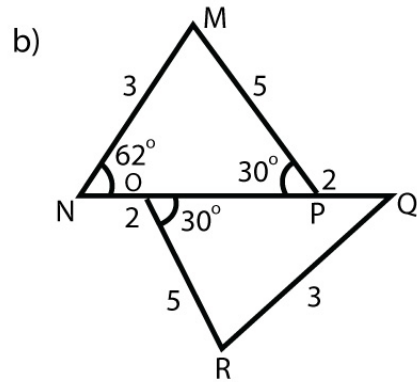
Score : Date :

Word Problems on Congruent Triangles Worksheet

1 For each of these given sets of triangles, state the rule that tells you that they are congruent. Find the unknown values.

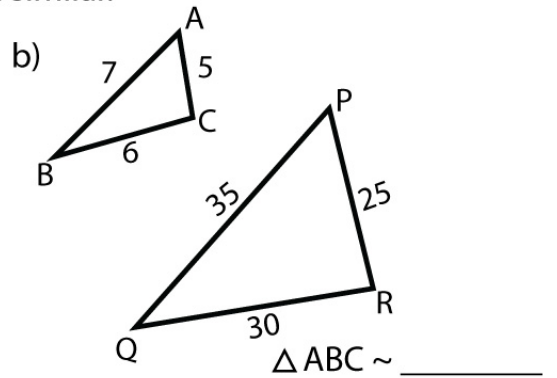
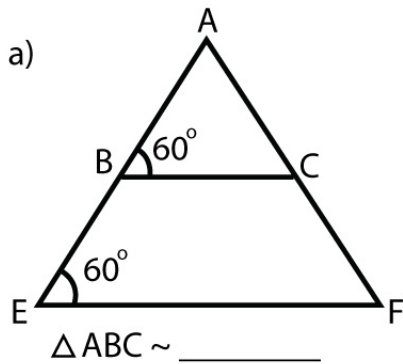


X = _____, Y = _____



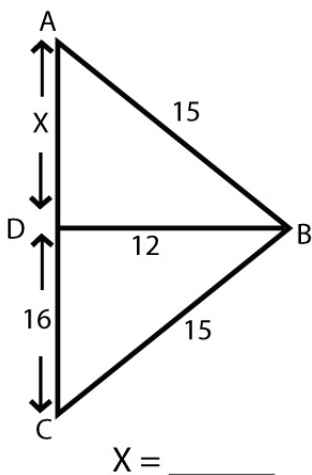
$\angle OQR = \text{_____}$, $\angle QRO = \text{_____}$

2 Which of these pairs of triangles are similar? For the pairs that are similar, give the rule used to prove them similar.

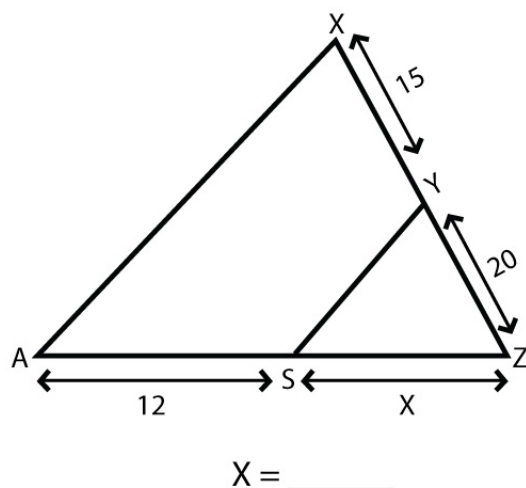


3 Solve for x in the given figures

a) Given $\triangle ABD \sim \triangle CBD$



b) Given $\triangle AXZ \sim \triangle SYZ$



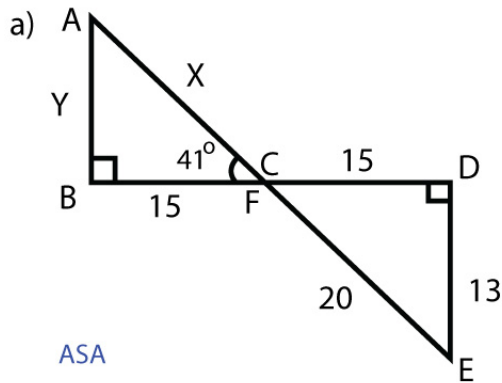
Name : _____

Score : _____ Date : _____

Word Problems on Congruent Triangles Worksheet

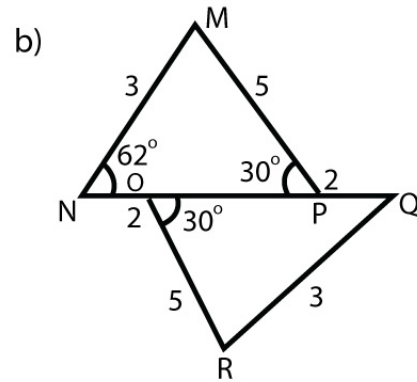
1

Answers



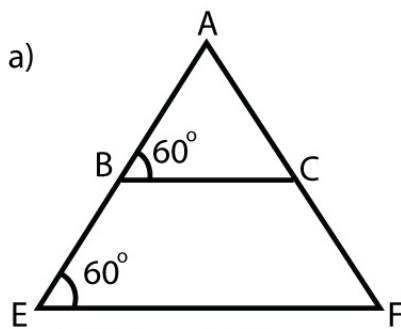
ASA

$X = \underline{20}$, $Y = \underline{13}$

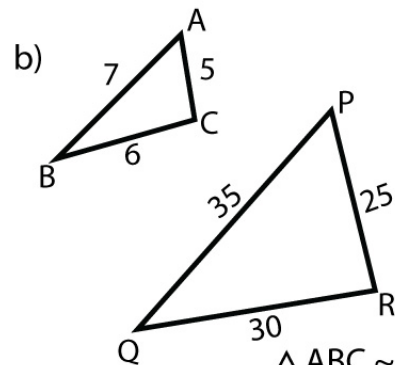


$\angle OQR = \underline{62^\circ}$, $\angle QRO = \underline{88^\circ}$

2



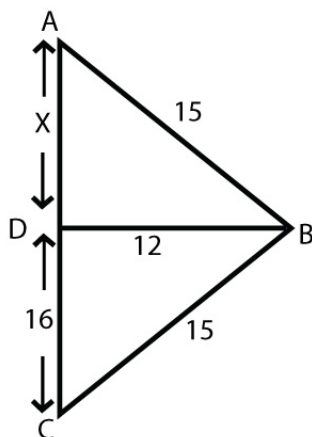
$\triangle ABC \sim \underline{\triangle AEF}$
SAS



$\triangle ABC \sim \underline{\triangle PQR}$
SSS

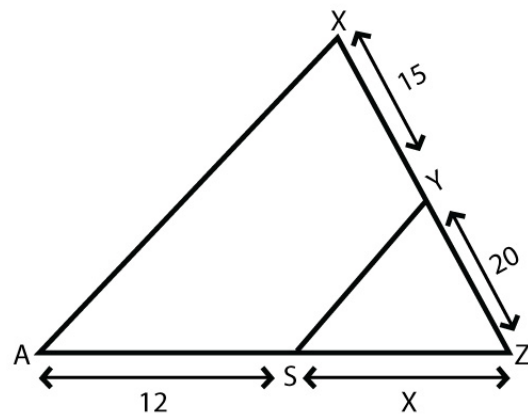
3

a) Given $\triangle ABD \sim \triangle CBD$



$X = \underline{16}$

b) Given $\triangle AXZ \sim \triangle SYZ$



$X = \underline{16}$