

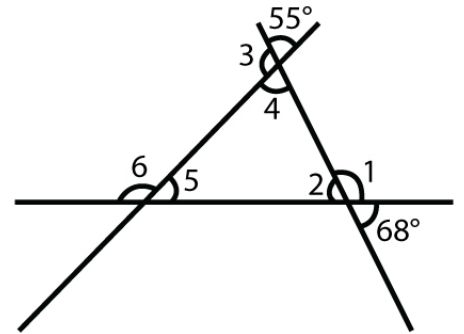
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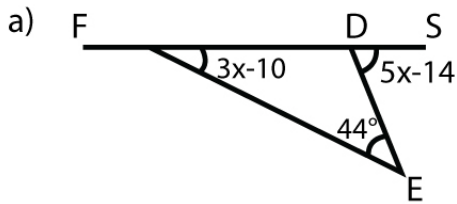
Triangle Sum Theorem and Exterior Angle Theorem Worksheet

1 Find the measure of each angle in the given triangle

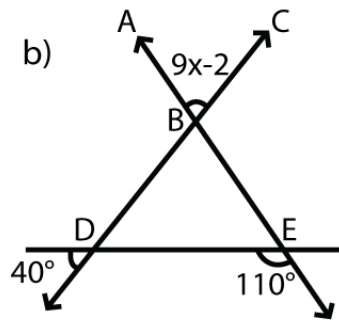
- a) $\angle 1$ b) $\angle 2$ c) $\angle 3$
 d) $\angle 4$ e) $\angle 5$ f) $\angle 6$



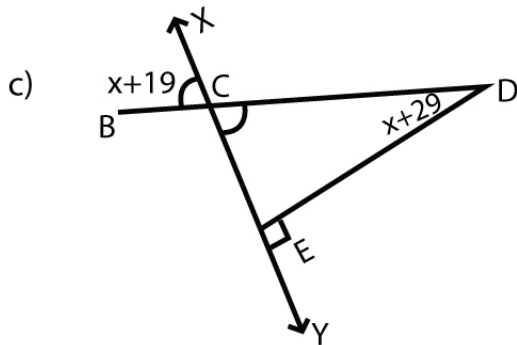
2 Find the measure of each unknown angle(s) in the given triangles.



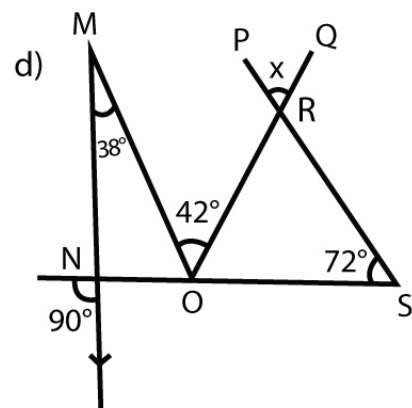
$\angle DFE =$ _____
 $\angle SDE =$ _____



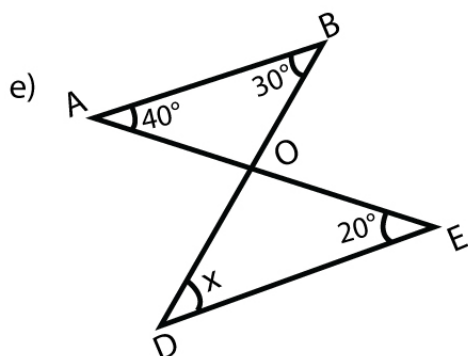
$\angle ABC =$ _____



$\angle XCB =$ _____, $\angle CDE =$ _____



$\angle PRQ =$ _____



$\angle ODE =$ _____

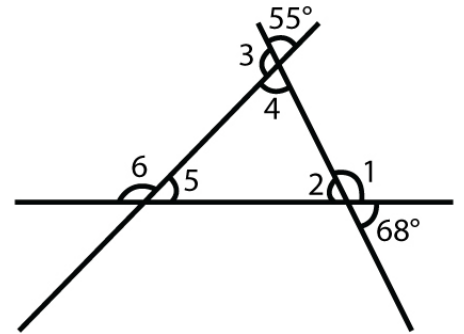
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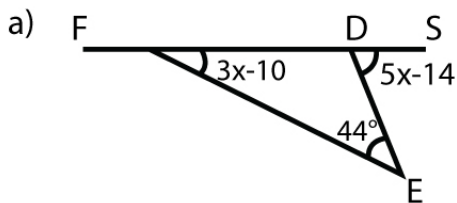
Triangle Sum Theorem and Exterior Angle Theorem Worksheet

1 Answers

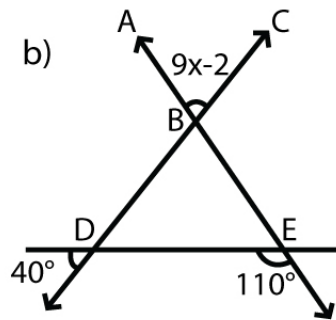
- | | | |
|-----------------------|----------------------|-----------------------|
| a) $\angle 1$
112° | b) $\angle 2$
68° | c) $\angle 3$
125° |
| d) $\angle 4$
55° | e) $\angle 5$
57° | f) $\angle 6$
123° |



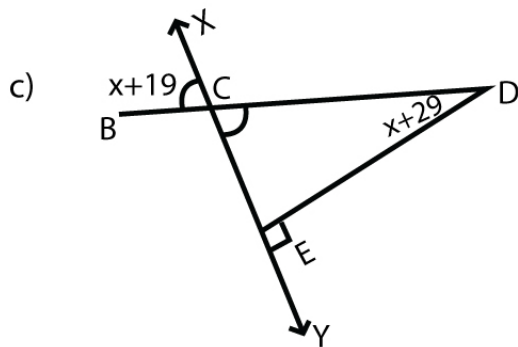
2



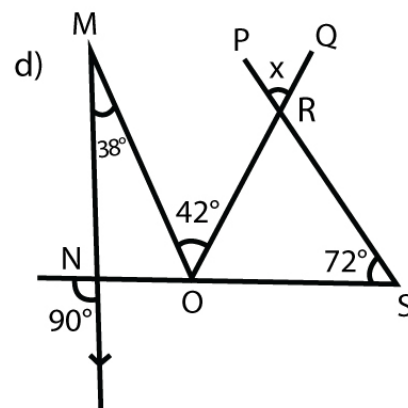
$\angle DFE = \underline{62^\circ}$
 $\angle SDE = \underline{106^\circ}$



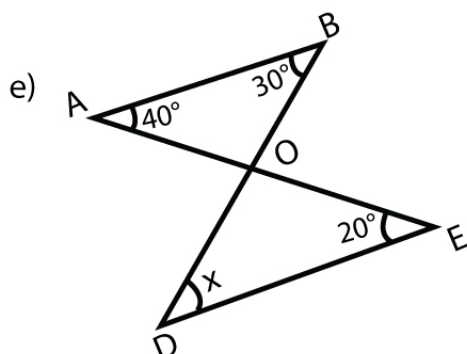
$\angle ABC = \underline{70^\circ}$



$XCB = \underline{91^\circ}$, $\angle CDE = \underline{51^\circ}$



$\angle PRQ = \underline{22^\circ}$



$\angle ODE = \underline{50^\circ}$