

Chapter 4: Proofs
Lesson 4-2: Congruent Triangles
Homework

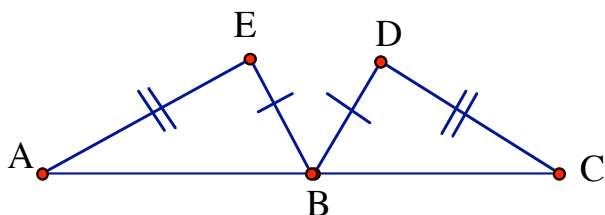
name _____
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Suppose $\triangle ABC \cong \triangle XYZ$. Complete.

1. $m\angle C = m\angle$ _____
2. $\overline{AC} \cong$ _____
3. $\angle Y \cong \angle$ _____
4. $\overline{YZ} \cong$ _____
5. $\triangle BCA \cong \triangle$ _____
6. _____ $\cong \triangle XZY$

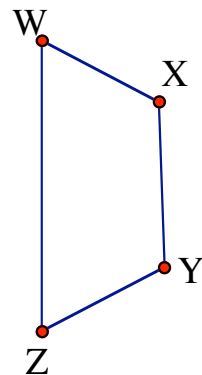
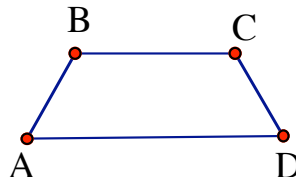
The two triangles are congruent. Complete.

7. $\triangle AEB \cong$ _____
8. $\angle A \cong$ _____, because _____
 _____.
9. $\angle BEA \cong$ _____



Quad. ABCD is congruent Quad. WXYZ. Complete.

10. $\angle B \cong \angle$ _____
11. $\overline{AD} \cong$ _____
12. $\angle BAD \cong$ _____



- _____ 13. Given $\triangle ABC \cong \triangle XYZ$, $AB = 26$, $YZ = 30$, $XY = 4x + 2$.
 Find the value of x.
- _____ 14. Given $\triangle EFG \cong \triangle PQR$, $m\angle E = 95$, $m\angle R = 32$, and $m\angle F = 4x + 13$.
 Find the value of x.
- _____ 15. In $\triangle ABC$, what is the side opposite $\angle C$?