Practice 5.4.2: Working with Ratio Segments

Use the Triangle Proportionality Theorem and the Triangle Angle Bisector Theorem to find the unknown lengths of the given segments.

1. \overline{BD}





continued

Use the Triangle Proportionality Theorem to determine if the given segments are parallel. Explain your reasoning.

7. Is $\overline{BE} || \overline{CD}$?









9. If AC = 60 units and EC = 36 units, is $\overline{AE} \parallel \overline{BD}$?



10. If AC = 24 units and AD = 30 units, is $\overline{BE} || \overline{CD}$?

