

10.6 Segment Relationships in Circles

Theorem 10.20 Segments of Secants and Tangents Theorem

If a secant segment and a tangent segment share an endpoint outside a circle, then the product of the lengths of the secant segment and its external segment equals the square of the length of the tangent segment.



$$EA^2 = EC \cdot ED$$

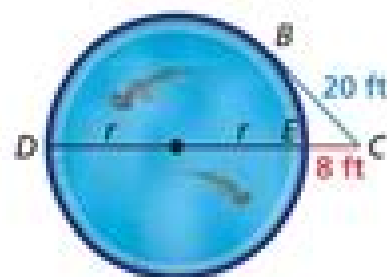
Proof Exs. 21 and 22, p. 574

Monitoring Progress

Find the value of x .



8. **WHAT IF?** In Example 4, $CB = 35$ feet and $CE = 14$ feet. Find the radius of the tank.



$$\begin{aligned}
 CB^2 &= CE \cdot CD \\
 35^2 &= 14(2r + 14) \\
 1225 &= 28r + 196 \\
 1029 &= 28r \\
 r &= 36.75 \text{ ft.}
 \end{aligned}$$

Segment Relationships In Circles Practice

Sharan B. Merriam, Ralph G. Brockett



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$$\text{MnO}_4^- + 7\text{H}^+ + 5\text{e}^- \rightarrow \text{Mn}^{2+} + 4\text{H}_2\text{O}$$

$$\text{MnO}_4^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{MnO}_2 + 2\text{H}_2\text{O}$$

$$\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^-$$

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web may 1 2004 the oxidation of toluene by aq KMnO_4 under hydrodynamic cavitation was taken as a model reaction and various parameters have been optimized the oxidation of toluene by aq KMnO_4 gives benzoic acid scheme 1 KMnO_4 in turn is reduced to MnO_2 the reaction did not give any other byproduct