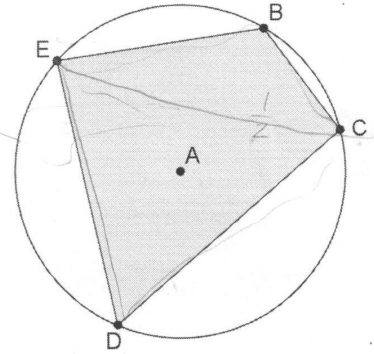


Quadrilateral $BCDE$ is inscribed in circle A . Prove that $\angle EDC$ and $\angle CBE$ are supplementary.



<p>S</p> <p>1.) $BCDE$ inscribed in a circle</p> <p>2.) $\angle EDC \cong \frac{1}{2} \widehat{EBC}$</p> <p>3.) $\angle D$ supp to $\angle B$ $\angle E$ supp $\angle C$</p> <p>4.) $\angle EBC \cong \frac{1}{2} \widehat{EDC}$</p> <p>5.) circle = 360</p>	<p>h</p> <p>1.) Given</p> <p>2.)</p> <p>3.)</p> <p>4.)</p> <p>5.) def. of circle</p>
---	--

Can the quadrilateral at right be inscribed in a circle? Explain why or why not.

NO because $190 \neq 180$

$$93 + 97 = 190$$

$$170 \neq 180$$

$$127 + 43 = 170$$

opp. \angle 's are supp.

