Assignment

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Q 8b.

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 \angle BAQ = 30^{\circ}  \Rightarrow \angle BAC = 30^{\circ}  also  \angle CAP = 180^{\circ} - \angle CAQ \Rightarrow \angle CAP = 120^{\circ}  \Rightarrow \angle CAD = \angle PAD = 60^{\circ}  \Rightarrow \angle BAD = 90^{\circ}  \Rightarrow BD \text{ is a diameter}   \angle ADB = \angle ACB = 30^{\circ} \text{ [Angle made a chord at two different points ]}  also  \angle CAB = 30^{\circ}  \Rightarrow \triangle ABC \text{ is an isosceles triangle}
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