Question 21358

Please find the angles which are not given. Please see the pdf and find the angle "e".

## Solution.

Since SA||CE and SE intersects them, then  $\angle S = \angle E = 44^{\circ}$ .

The sides SH and AH of the triangle  $\triangle SHA$  are equal to a radius of a circle. Thus, SH = AH. It follows that  $\angle S = \angle A = 44^{\circ}$  and  $\angle H = 180^{\circ} - 2 \cdot 44^{\circ} = 92^{\circ}$ .

So  $\angle e = 180^{\circ} - 92^{\circ} = 88^{\circ}$ .

Since SA||CE and CA intersects them, we have  $\angle A = \angle C = 44^{\circ}$ .

Answer.  $\angle e = 88^{\circ}$ .

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