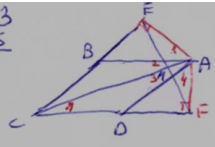


1.103
S



$\angle A_3 = \angle C_1 = \alpha$ (2)
 $\angle A_3 + \angle A_4 = 90 - \alpha$: $\triangle ACF$
 $\angle EAF = 180 - 2\alpha$: $\triangle AEF$
 $\angle AEF = \angle AFE = \alpha$
 $\triangle AEF \sim \triangle ACD$
 .6 1.107 5 775 .E

$\angle A_1 + \angle A_2 = \angle A_3 + \angle A_4$
 $\angle A_1 + \angle A_2 = \angle A_3 + \angle A_4$
 $\angle A_1 = \angle A_4$
 $\angle A_2 = \angle A_3$ (i)
 (S. 3.3) $\triangle ABE \cong \triangle ADF$
 $\angle A_1 = \angle A_4$