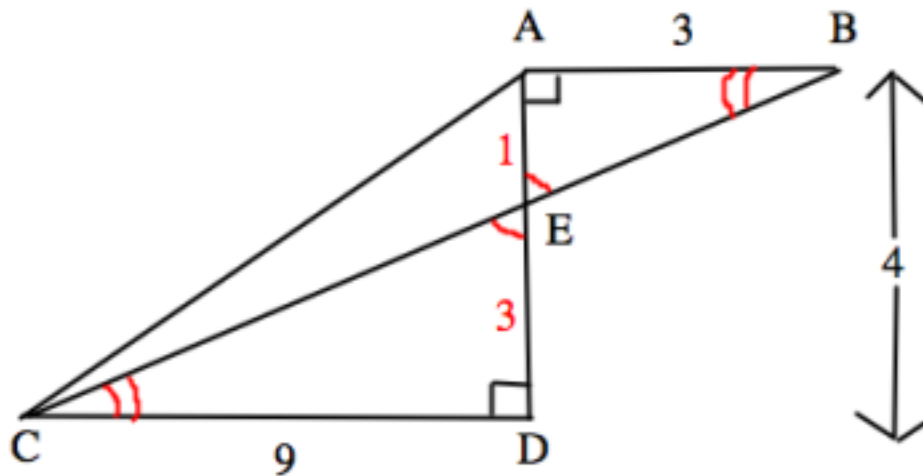


Public Screen



triangle CDE is similar to triangle ABE

$$CD/AB = 9/3 = 3/1$$

So $DE/AE = 3/1$.

Since $DE + AE = 4$, $DE = 3$ and $AE = 1$

triangle AEC = triangle ACD - triangle CDE

$$\text{triangle AEC} = (1/2 * 9 * 4) - (1/2 * 9 * 3) = 18 - 13.5 = 4.5$$