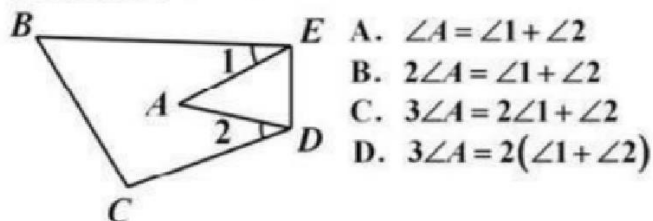
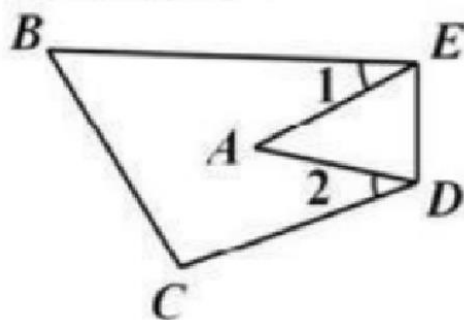


(5)如图,把 $\triangle ABC$ 纸片沿 DE 折叠,当点 A 落在四边形 $BCDE$ 内部时,则 $\angle A$ 与 $\angle 1 + \angle 2$ 之间有一种数量关系始终保持不变,你发现的规律是()



- A. $\angle A = \angle 1 + \angle 2$
 B. $2\angle A = \angle 1 + \angle 2$
 C. $3\angle A = 2\angle 1 + \angle 2$
 D. $3\angle A = 2(\angle 1 + \angle 2)$



Example 108 : As shown in Figure 1, fold the $\triangle ABC$ sheet along DE , when point A falls inside the quadrilateral $BCDE$, explore the quantitative relationship between $\angle 1 + \angle 2$ and $\angle A$.

Traditional proof: in $\triangle ADE$, $\angle A = 180^\circ - \angle ADE - \angle AED$, from the properties of folding: $\angle 1 + 2\angle ADE = 180^\circ$, $\angle 2 + 2\angle AED = 180^\circ$, Then $\angle 1 + \angle 2 = 360^\circ - 2\angle ADE - 2\angle AED = 2(180^\circ - \angle ADE - \angle AED) = 2\angle A$.

$$\frac{E - A \quad D - C}{E - B \quad D - A} = \frac{D - C \quad A - E}{E - B \quad A - D}$$

tautological value