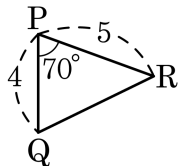
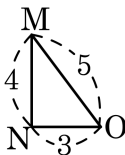
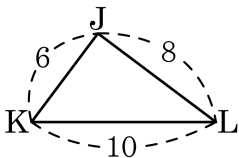
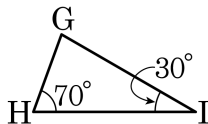
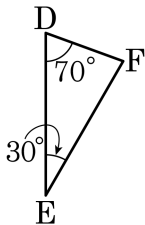
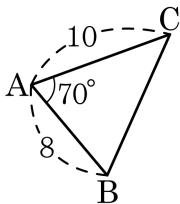


1. 다음 삼각형 중 닮음인 도형은 몇 쌍인가?



① 없다.

② 1 쌍

③ 2 쌍

④ 3 쌍

⑤ 4 쌍

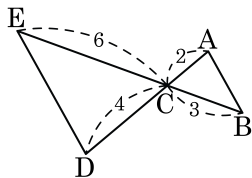
해설

$\triangle ABC \sim \triangle PQR$ (SAS 닮음)

$\triangle DEF \sim \triangle HIG$ (AA 닮음)

$\triangle KJL \sim \triangle ONM$ (SSS 닮음)

2. 다음의 그림에서 $\triangle ABC$ 와 닮음인 삼각형과 닮음 조건을 바르게 짝지어 놓은 것은?



- ① $\triangle EDC$ (SSS닮음)
- ② $\triangle DEC$ (AA닮음)
- ③ $\triangle CDE$ (SSS닮음)
- ④ $\triangle DEC$ (SSS닮음)
- ⑤ $\triangle DEC$ (SAS닮음)

해설

$$\overline{BC} : \overline{CE} = 3 : 6 = 1 : 2, \overline{CA} : \overline{CD} = 2 : 4 = 1 : 2$$

$$\angle ECD = \angle BCA(\text{맞꼭지각})$$

따라서 $\triangle ABC \sim \triangle DEC$ (SAS닮음) 이다.

3. 다음 그림에서 옳은 것은 무엇인가?

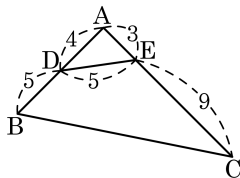
① $\triangle ABC \sim \triangle AED$ (SSS 답음)

② $\overline{AB} : \overline{AE} = \overline{BC} : \overline{ED}$

③ $\overline{BC} = 10 \text{ cm}$

④ $\angle AED$ 의 대응각은 $\angle ACB$

⑤ $\overline{AE}$ 의 대응변은 $\overline{AC}$



해설

$\triangle ABC$ 와 $\triangle AED$ 에서

$$\angle A \text{ 는 공통, } \overline{AB} : \overline{AE} = \overline{AC} : \overline{AD} = 3 : 1$$

$$\therefore \triangle ABC \sim \triangle AED \text{ (SAS 답음)}$$

$$\therefore \overline{AB} : \overline{AE} = \overline{BC} : \overline{ED}$$