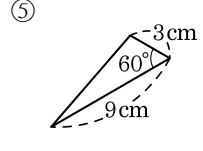
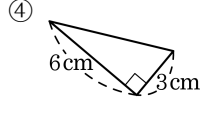
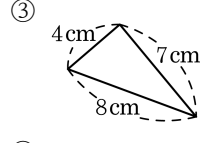
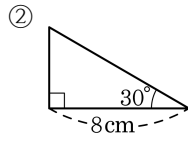
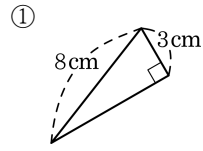
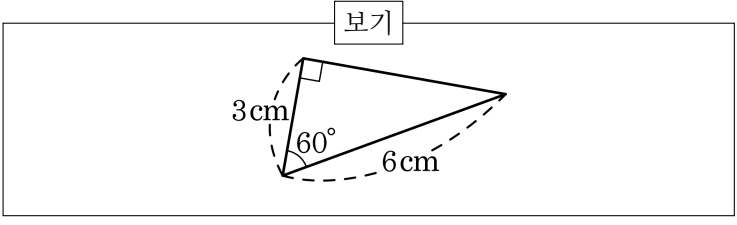
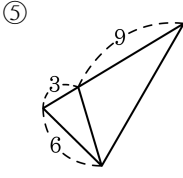
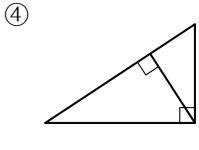
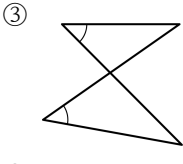
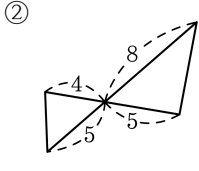
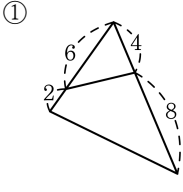


1. 다음 보기의 $\triangle ABC$ 와 닮은 도형을 찾으면?



2. 다음 도형에서 닮은 삼각형을 찾을 수 없는 것은?



3. 다음 주어진 조건으로 $\triangle ABC \sim \triangle DEF$ 인 경우를 모두 고르면?(정답 2개)

① $\overline{AB} : \overline{DE} = \overline{AC} : \overline{DF} = \overline{BC} : \overline{EF}$

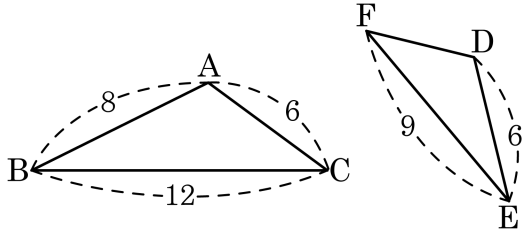
② $\overline{AB} : \overline{DE} = \overline{BC} : \overline{EF}$, $\angle A = \angle D$

③ $\overline{AB} = 2\overline{DE}$, $\overline{BC} = 2\overline{EF}$, $\angle ABC = 2\angle DEF$

④ $\overline{AC} = \overline{DF}$, $\overline{BC} = \overline{EF}$

⑤ $\angle A = \angle D$, $\angle B = \angle E$

4. 다음 두 도형이 닮음이 되도록 할 때, 필요한 조건을 고르면?



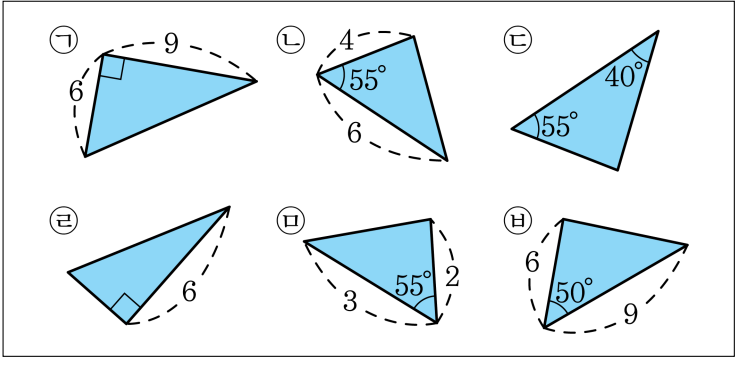
- ① $\overline{FD} = 4$

③ $\angle A = \angle E$

⑤ $\angle A = \angle D, \overline{FD} = 4$
- ② $\overline{FD} = 4.5$

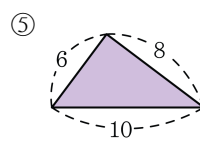
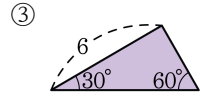
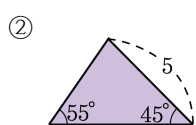
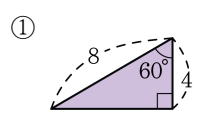
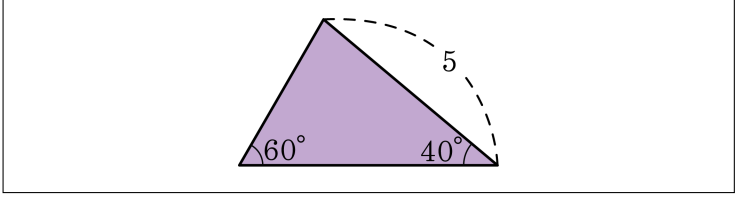
④ $\angle B = \angle D$

5. 다음 삼각형 중에서 서로 닮은 삼각형은?

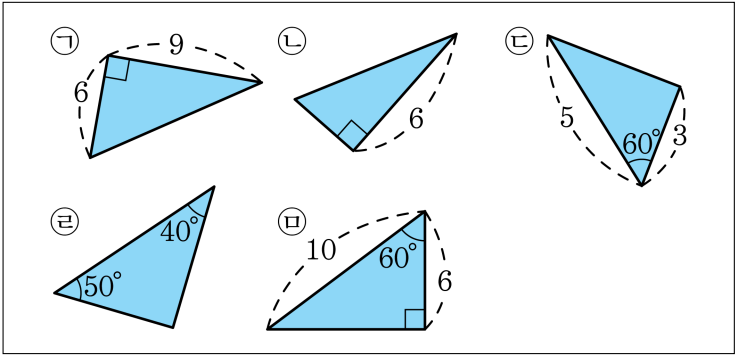
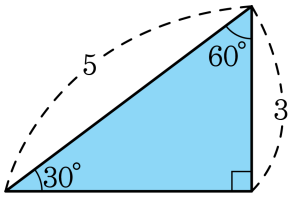


- ① A, B
- ② B, D
- ③ B, D, E
- ④ B, C, D, F
- ⑤ B, F

6. 다음 삼각형 중에서 주어진 삼각형과 닮은 삼각형은?



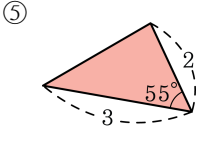
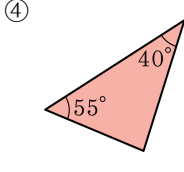
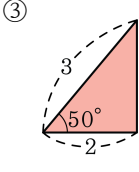
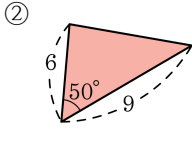
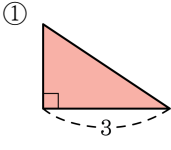
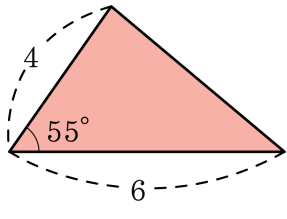
7. 다음 보기 중에서 주어진 삼각형과 닮은 삼각형을 모두 골라라.



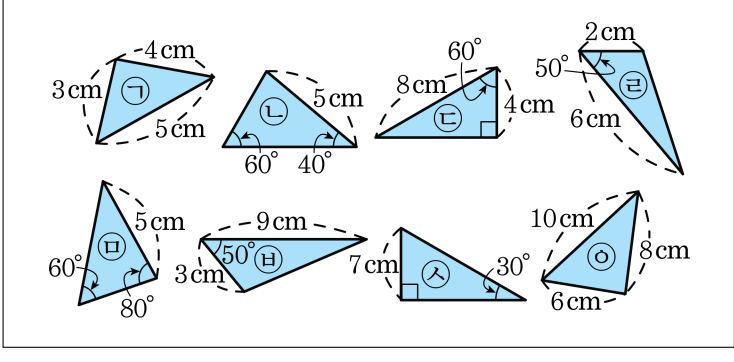
☐ 답: _____

☐ 답: _____

8. 다음 주어진 삼각형과 닮은 삼각형을 알맞게 짝지은 것은?



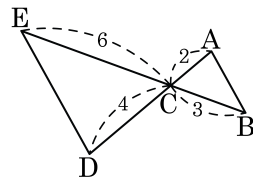
9. 다음 그림에서 닮은 삼각형끼리 짝지어 놓은 것이 옳지 않은 것은?



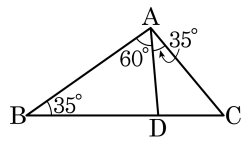
- ① ⓐ과 ⓒ
- ② ⓓ과 ⓔ
- ③ ⓓ과 ⓖ
- ④ ⓔ과 ⓗ
- ⑤ ⓖ과 ⓘ

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

- ① $\triangle EDC$ (SSS 닮음)
- ② $\triangle DEC$ (AA 닮음)
- ③ $\triangle CDE$ (SSS 닮음)
- ④ $\triangle DEC$ (SSS 닮음)
- ⑤ $\triangle DEC$ (SAS 닮음)



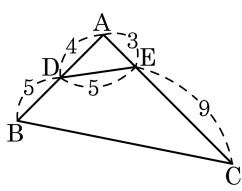
11. 다음 그림에서 $\angle B = \angle DAC = 35^\circ$ 이고,
 $\angle DAB = 60^\circ$ 이다. 다음 설명 중 틀린 것
 은?



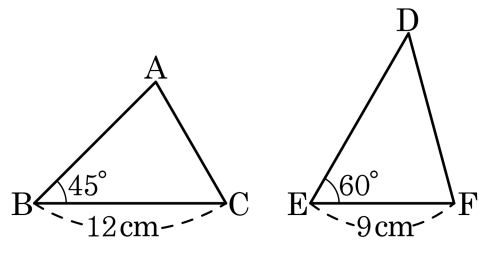
- | | |
|--------------------------------------|--------------------------------------|
| ① $\angle C = 50^\circ$ | ② $\triangle ABC \sim \triangle DAC$ |
| ③ $\angle ADC = 95^\circ$ | ④ $\angle ADB = 85^\circ$ |
| ⑤ $\triangle ABC \sim \triangle DBA$ | |

12. 다음 그림에서 옳은 것은 무엇인가?

- ① $\triangle ABC \sim \triangle AED$ (SSS) 옳음
- 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 $\overline{AC}$



13. 다음 그림에서 $\triangle ABC$ 와 $\triangle DEF$ 가 닮은 도형이 되려면 다음 중 어느 조건을 만족해야 되는가?



- ① $\angle A = 75^\circ$, $\angle D = 45^\circ$
- ② $\angle C = 80^\circ$, $\angle F = 55^\circ$
- ③ $\overline{AB} = 8\text{ cm}$, $\overline{DE} = 6\text{ cm}$
- ④ $\overline{AC} = 4\text{ cm}$, $\overline{DF} = 3\text{ cm}$
- ⑤ $\overline{AB} = 15\text{ cm}$, $\overline{DF} = 12\text{ cm}$

14. $\triangle ABC$ 와 $\triangle DEF$ 가 다음 조건을 만족할 때, $\triangle ABC \sim \triangle DEF$ 가 되지 않는 경우는?

① $\frac{\overline{AB}}{\overline{DE}} = \frac{\overline{BC}}{\overline{EF}} = \frac{\overline{CA}}{\overline{FD}}$

③ $\angle A = \angle D, \angle C = \angle F$

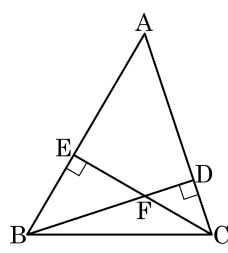
⑤ $\angle B = \angle E, \angle C = \angle F$

② $\frac{\overline{BC}}{\overline{EF}} = \frac{\overline{CA}}{\overline{FD}}, \angle C = \angle F$

④ $\frac{\overline{AB}}{\overline{DE}} = \frac{\overline{BC}}{\overline{EF}}, \angle C = \angle F$

15. 다음 그림에 대한 설명으로 옳은 것을 모두 골라라.

- ㉠ $\angle A = \angle BCF$
 ㉡ $\overline{AB} : \overline{AC} = \overline{BD} : \overline{CE}$
 ㉢ $\angle A = \angle BFE$

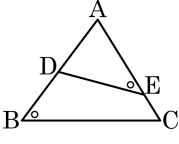


▶ 답: _____

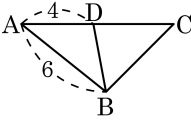
▶ 답: _____

16. 다음 각 도형에서 다음인 두 삼각형을 기호로 바르게 나타낸 것은?

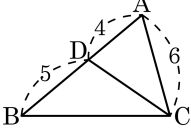
① $\triangle ABC \sim \triangle ADE (\angle B = \angle E)$



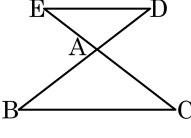
② $\triangle ABD \sim \triangle BCD$



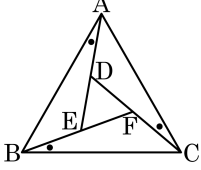
③ $\triangle ADC \sim \triangle BDC$



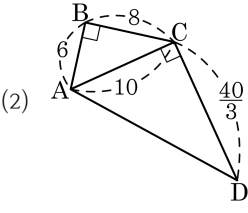
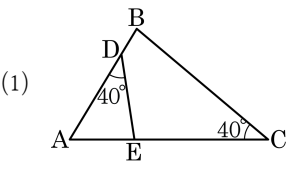
④ $\triangle ABC \sim \triangle ADE$



⑤ $\triangle ABC \sim \triangle DEF (\angle BAE = \angle FBC = \angle DCA)$



17. 다음과 같은 닮음 삼각형을 보고 닮음조건으로 바르게 연결한 것은?



- ① (1) AA 닮음 (2) SAS 닮음
- ② (1) SSS 닮음 (2) SAS 닮음
- ③ (1) SSS 닮음 (2) SSS 닮음
- ④ (1) SAS 닮음 (2) AA 닮음
- ⑤ (1) AA 닮음 (2) AA 닮음

18. 다음 각 경우에 $\triangle ABC \sim \triangle A'B'C'$ 이 되는 것을 모두 찾으시오. (정답 2개)

① $\overline{AB} = 2\overline{A'B'}$, $\overline{AC} = 2\overline{A'C'}$, $\overline{BC} = 2\overline{B'C'}$

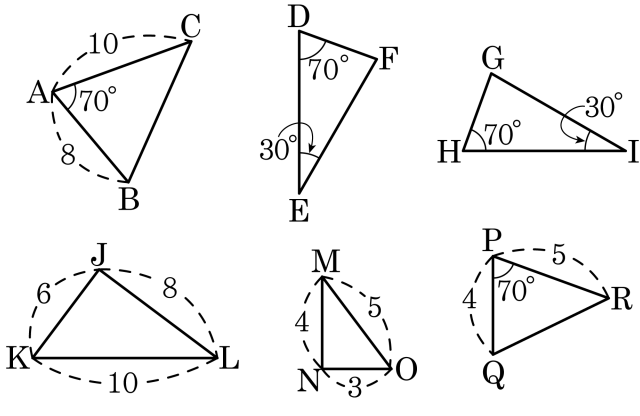
② $\overline{AB} = 2\overline{A'B'}$, $\angle A = \angle A'$

③ $\overline{AC} = 2\overline{A'C'}$, $\overline{BC} = 2\overline{B'C'}$, $\angle A = \angle A'$

④ $3\overline{AB} = \overline{A'B'}$, $3\overline{AC} = \overline{A'C'}$

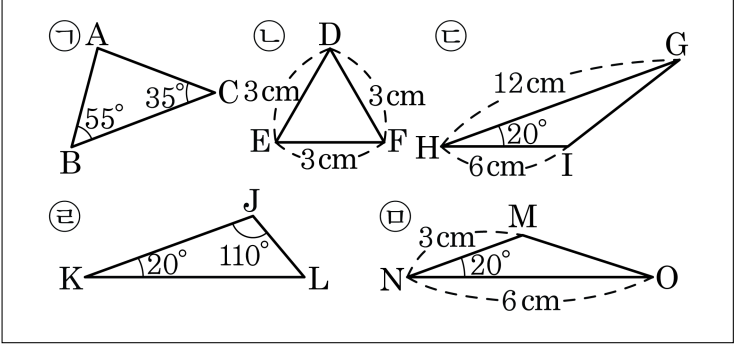
⑤ $\angle B = \angle B'$, $\angle C = \angle C'$

19. 다음 삼각형 중 닮음인 도형은 몇 쌍인가?



- ① 없다. ② 1 쌍 ③ 2 쌍 ④ 3 쌍 ⑤ 4 쌍

20. 다음 삼각형 중에서 SAS 닮음인 도형을 알맞게 짝지은 것은?



- ① ㉠ - ㉡ ② ㉢ - ㉣ ③ ㉢ - ㉤
 ④ ㉢ - ㉤ ⑤ ㉡ - ㉤

21. 다음 중 $\triangle ABC \sim \triangle A'B'C'$ 이 되지 않는 것은?

① $\frac{\overline{AB}}{\overline{A'B'}} = \frac{\overline{BC}}{\overline{B'C'}} = \frac{\overline{CA}}{\overline{C'A'}}$

② $\frac{\overline{AB}}{\overline{A'B'}} = \frac{\overline{BC}}{\overline{B'C'}}, \angle C = \angle C'$

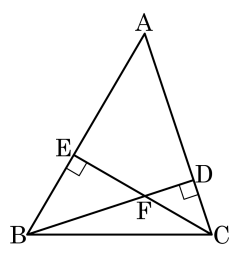
③ $\frac{\overline{BC}}{\overline{B'C'}} = \frac{3}{4}, \angle B = \angle B', \angle C = \angle C'$

④ $\frac{\overline{AB}}{\overline{A'B'}} = \frac{\overline{AC}}{\overline{A'C'}} = \frac{1}{2}, \angle A = \angle A'$

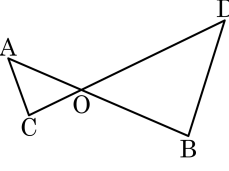
⑤ $\angle A = \angle A', \angle B = \angle B'$

22. 다음 그림에서 다음 중 네 개의 삼각형과 닮은 삼각형이 아닌 것은?

- ① $\triangle ABD$ ② $\triangle ACE$ ③ $\triangle CBE$
④ $\triangle FBE$ ⑤ $\triangle FCD$



23. 다음 그림에서 $2\overline{AO} = \overline{DO}$, $2\overline{CO} = \overline{BO}$ 일 때, $\angle A = \angle D$ 임을 다음과 같이 증명하였다. 안에 알맞지 않은 것은?

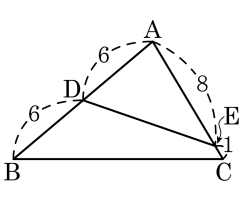


증명

$\triangle AOC$ 와 $\triangle DOB$ 에서
 $\overline{AO} : \overline{DO} = \overline{CO} : \overline{BO} = \text{①} : \text{②}$
 $\angle AOC = \text{③}$ ($\because$ 맞꼭지각) 이므로
 $\triangle AOC$ ④ $\triangle DOB$ (⑤ 닮음)
 따라서 $\angle A = \angle D$ 이다.

- ① 1
 ② 2
 ③ $\angle DOB$
- ④ $\sphericalangle$
 ⑤ SSS

24. 다음은 다음 그림에서 답
 은 삼각형을 찾아 증명
 하는 과정이다.
 안에 알맞지 않은 것
 은?



증명

①

 는 공통
 $\overline{AD} : \overline{AC} =$ ②
 $\overline{AE} : \text{③} = 8 : 12$
 $\therefore \text{④} \propto \triangle AED$ (⑤ 닮음)

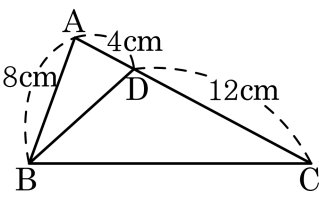
- ① $\angle A$

② $6 : 9$

③ $\overline{AB}$
- ④ $\triangle ACB$

⑤ SAS

25. 다음 중 그림에 해당하는 답음 조건을 모두 찾으면?



- ① $\angle A$ 는 공통
- ② $\angle C = \angle D$
- ③ $\overline{AB} : \overline{AD} = 2 : 1$
- ④ $\overline{AC} : \overline{AB} = 2 : 1$
- ⑤ $\overline{AD} : \overline{DC} = \overline{AB} : \overline{AC}$

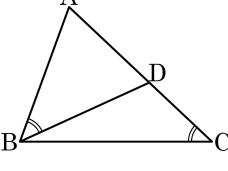
26. 다음은 $\angle ABD = \angle ACB$ 일 때, 두 삼각형이 닮음임을 증명하는 과정이다. 알맞은 것을 고르면?

[증명]

$\triangle ABD$ 와 $\triangle ACB$ 에서 ①)는 공통.

가정에서 ②)=③)

삼각형의 닮음조건 ④)에 의하여 $\triangle ABD$ ⑤) $\triangle ACB$ 이다.



① $\angle B$

② $\angle ADB$

③ $\angle ACB$

④ $\angle SSS$

⑤ $\equiv$