

1. 다음 그림에서 옳은 것은 무엇인가?

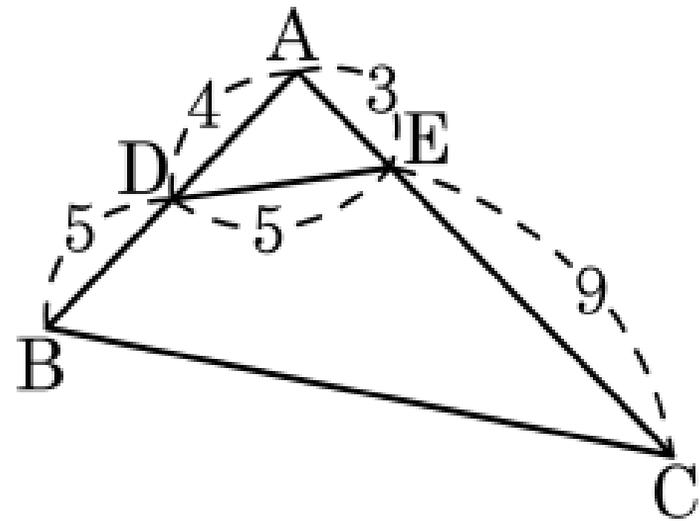
① $\triangle ABC \sim \triangle AED$ (SSS답음)

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

③ $\overline{BC} = 10 \text{ cm}$

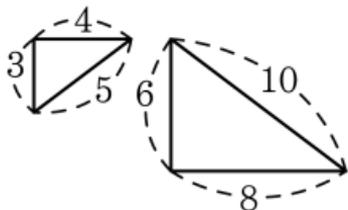
④ $\angle AED$ 의 대응각은 $\angle ACB$

⑤ \overline{AE} 의 대응변은 \overline{AC}

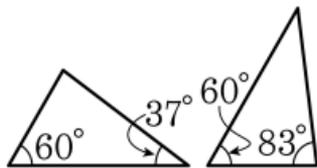


2. 다음 짝지어진 도형 중 서로 닮음이 아닌 것은?

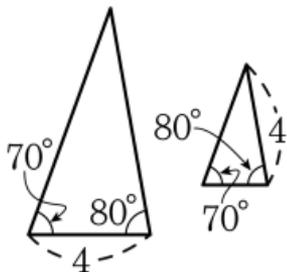
①



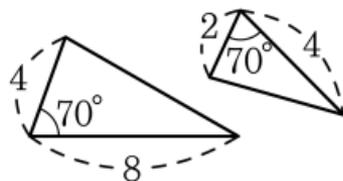
②



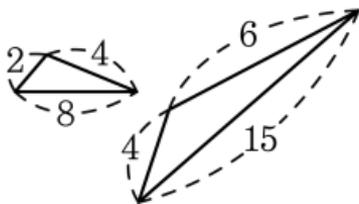
③



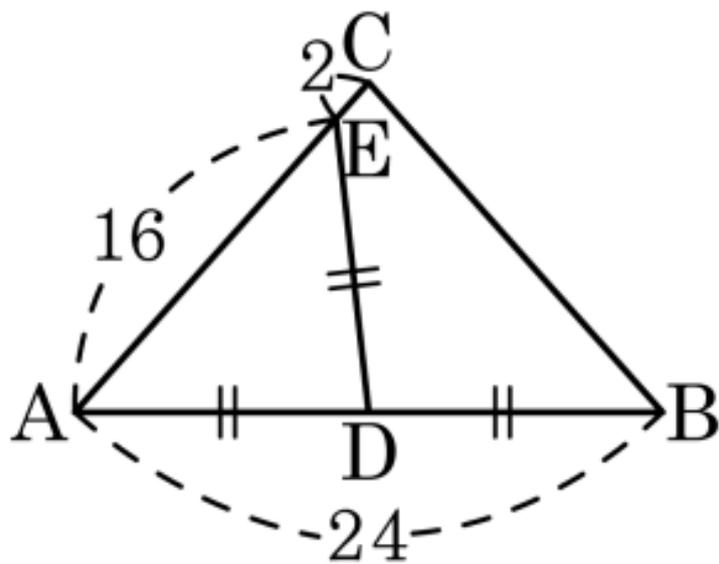
④



⑤

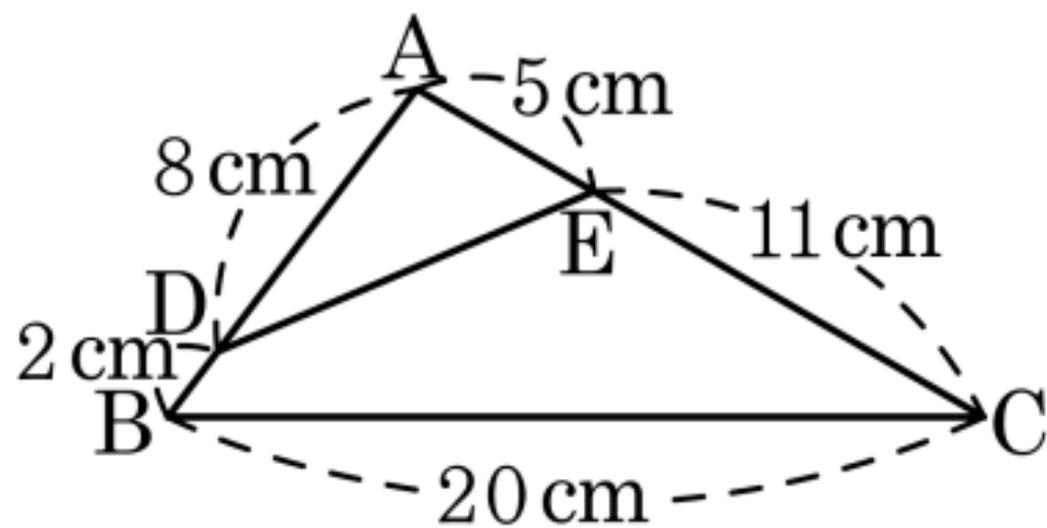


3. 각 변의 길이가 다음 그림과 같을 때, \overline{BC} 의 길이를 구하시오.



답: _____

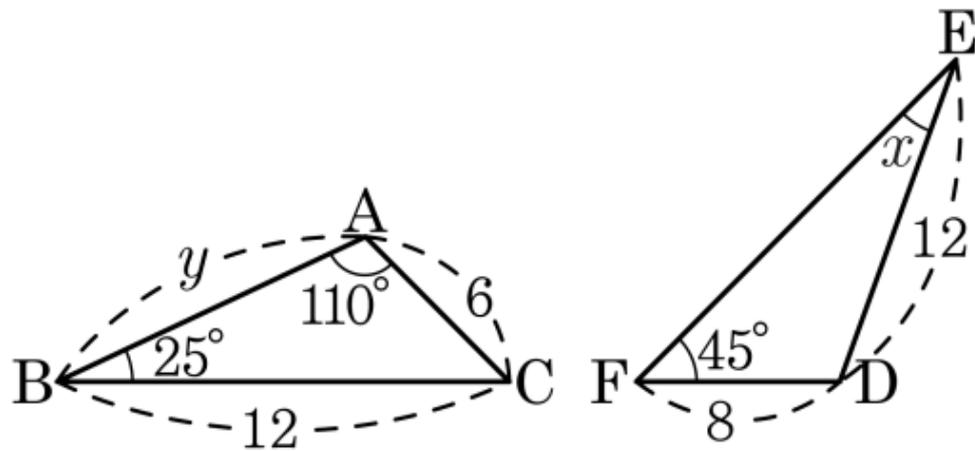
4. 다음 그림에서 \overline{DE} 의 길이를 구하여라.



답:

_____ cm

5. 다음 그림에서 $\triangle ABC$ 와 $\triangle DEF$ 는 닮은 도형이다. x, y 의 값을 차례로 구한 것은?



① $45^\circ, 6$

② $45^\circ, 9$

③ $25^\circ, 9$

④ $30^\circ, 9$

⑤ $45^\circ, 12$

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

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

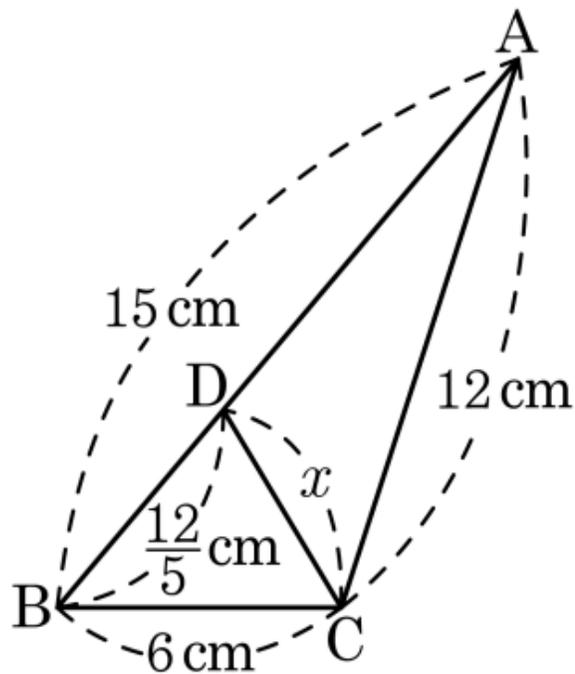
② $\overline{AB} = 2\overline{A'B'}$, $\angle A = \angle A'$

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

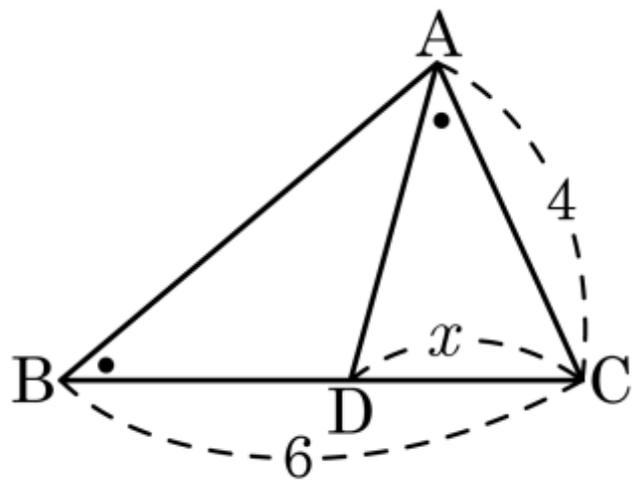
7. 다음 그림에서 x 의 길이를 구하여라.



답:

_____ cm

8. 다음 그림에서 $\overline{AC} = 4$, $\overline{BD} = 6$ 일 때, \overline{DC} 의 길이는?



① $x = 5$

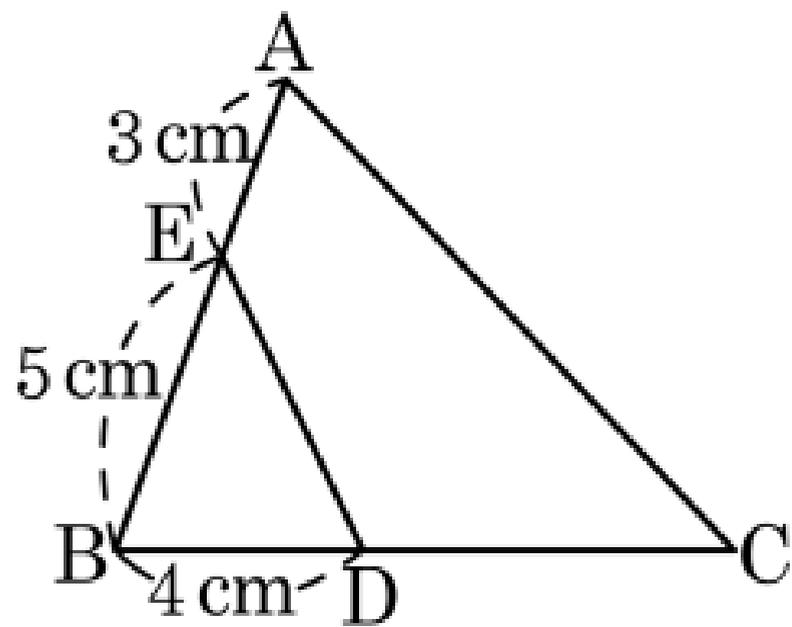
② $x = 6$

③ $x = \frac{8}{3}$

④ $x = \frac{9}{5}$

⑤ $x = \frac{7}{4}$

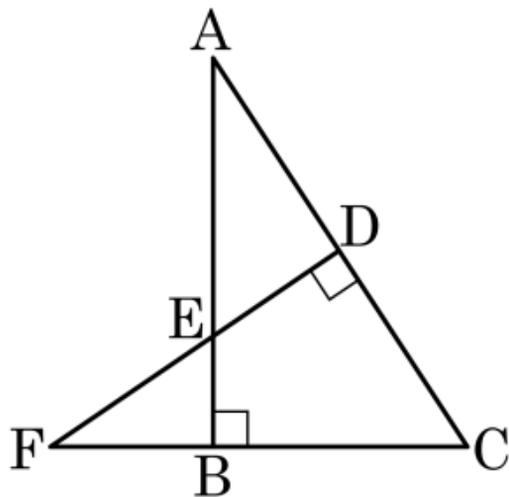
9. 다음 그림에서 $\angle A = \angle BDE$ 일 때, \overline{CD} 의 길이를 구하여라.



답:

_____ cm

10. 다음 그림에서 $\angle ABC = \angle FDC = 90^\circ$ 일 때, $\triangle ADE$ 와 닮은 삼각형이 아닌 것을 모두 고르면?



① $\triangle EBC$

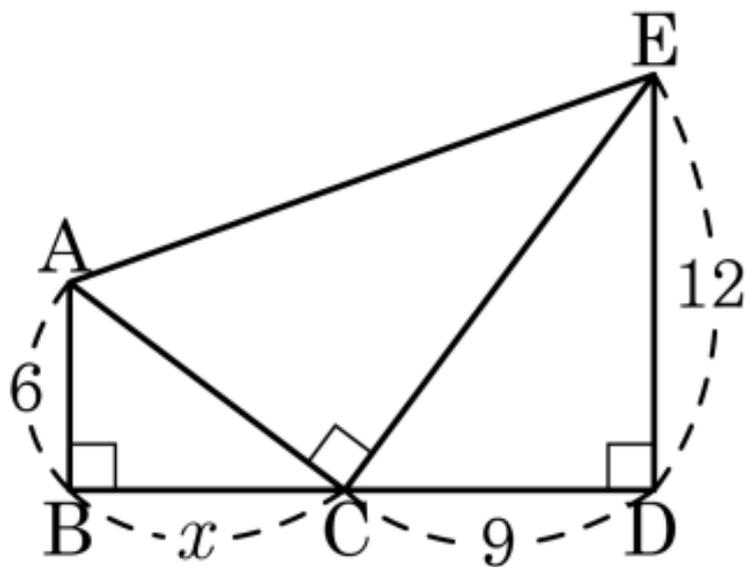
② $\triangle ABC$

③ $\triangle FBE$

④ $\triangle FDC$

⑤ $\triangle EDC$

11. 다음 그림에서 $\overline{AB} = 6$, $\overline{CD} = 9$, $\overline{DE} = 12$ 일 때, x 의 값은?



① 2

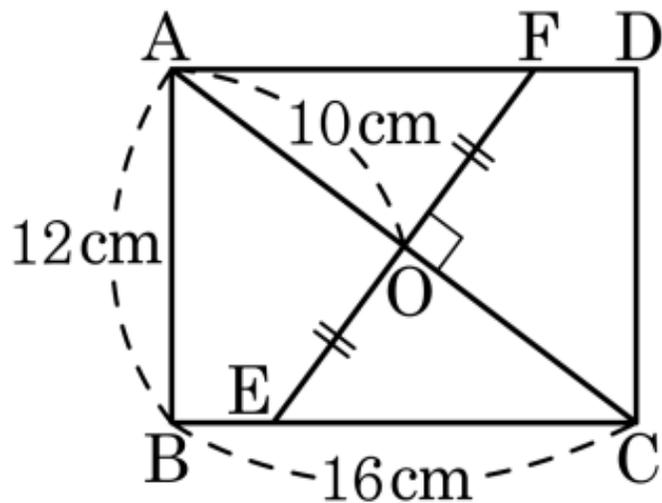
② 4

③ 6

④ 8

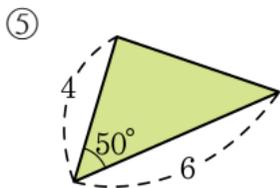
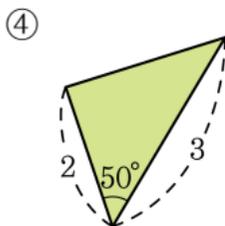
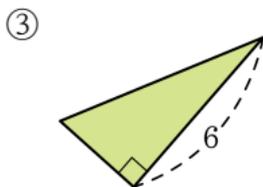
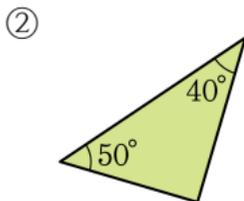
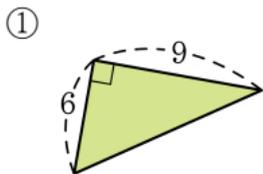
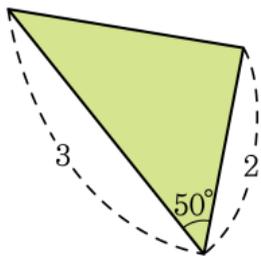
⑤ 10

12. 다음 그림의 $\square ABCD$ 는 직사각형이고 \overline{AC} 는 \overline{EF} 의 수직이등분선이
 다. $\overline{AB} = 12\text{cm}$, $\overline{BC} = 16\text{cm}$, $\overline{AO} = 10\text{cm}$ 일 때, \overline{EF} 의 길이는?

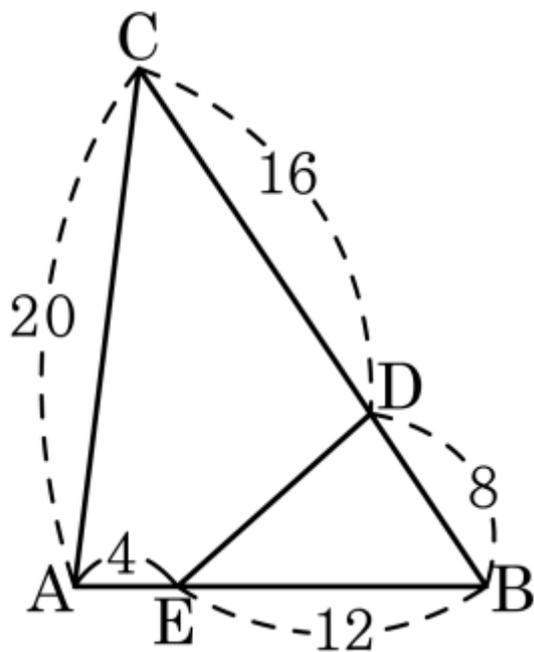


- ① 12cm ② 13cm ③ 14cm ④ 15cm ⑤ 16cm

13. 다음 삼각형 중에서 주어진 삼각형과 닮은 삼각형을 모두 찾으려면?

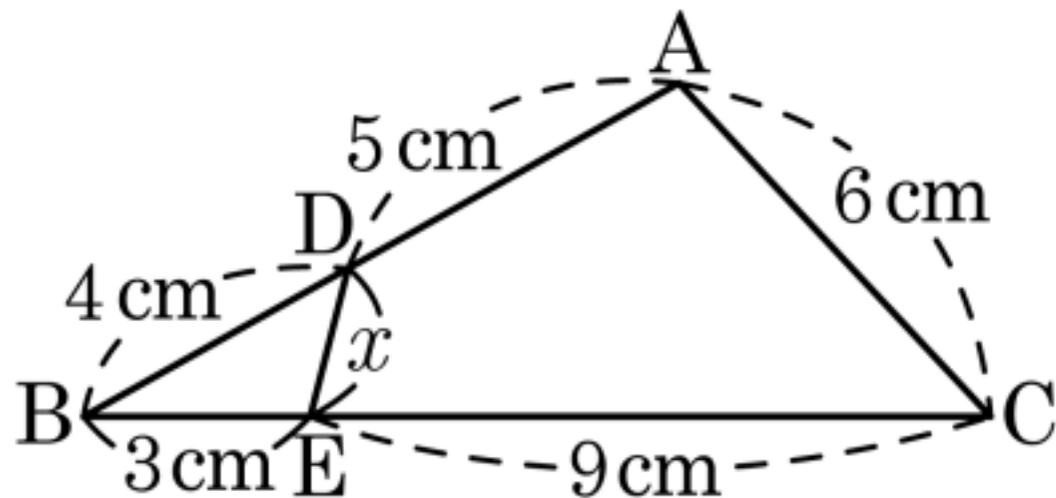


14. 각 변의 길이가 다음 그림과 같을 때, \overline{ED} 의 길이를 구하시오.



답: _____

15. 다음 그림에서 x 의 값은?



① 1

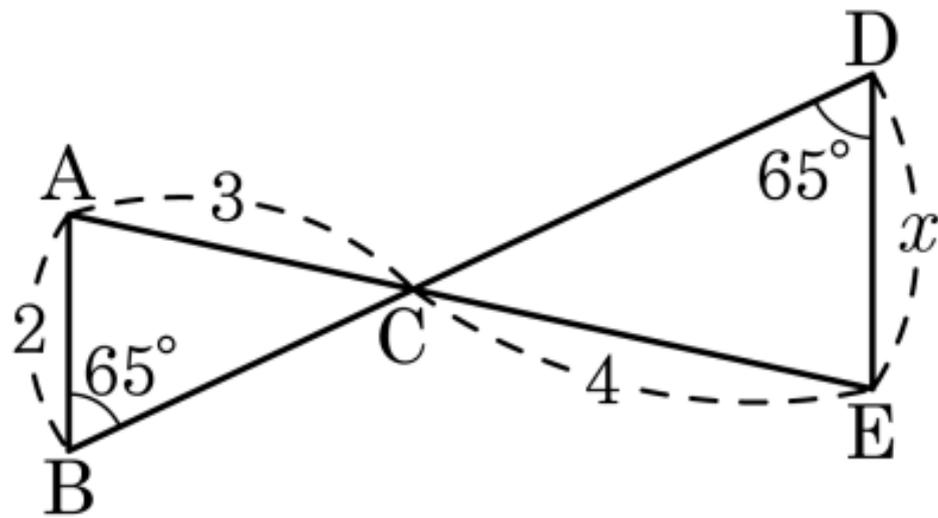
② 1.5

③ 2

④ 2.5

⑤ 3

16. 다음 그림에서 x 의 값은 무엇인가?



① $\frac{5}{3}$

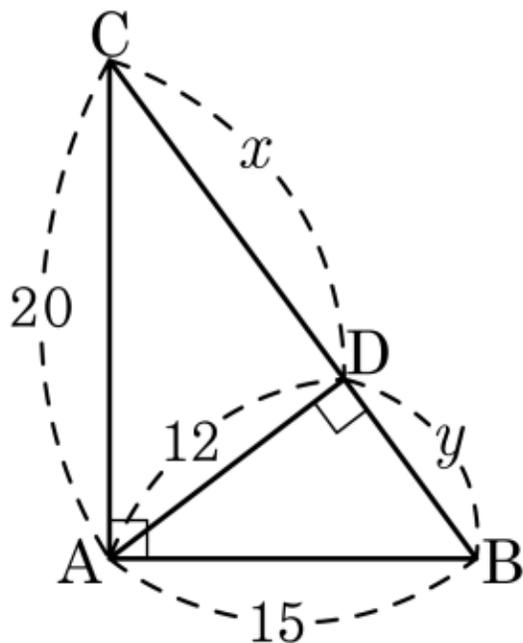
② 2

③ $\frac{7}{3}$

④ $\frac{8}{3}$

⑤ 3

17. 다음 그림에서 x 와 y 의 값을 각각 구하면?



① 24, 6

② 20, 8

③ 20, 5

④ 18, 8

⑤ 16, 9