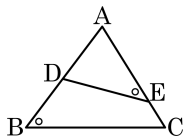
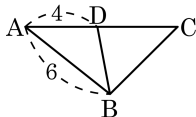


1. 다음 각 도형에서 닮음인 두 삼각형을 기호로 바르게 나타낸 것은?

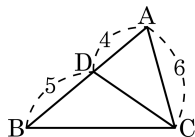
① $\triangle ABC \sim \triangle ADE (\angle B = \angle E)$



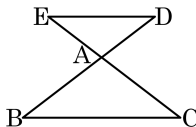
② $\triangle ABD \sim \triangle BCD$



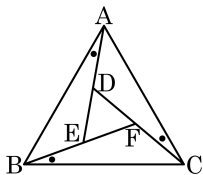
③ $\triangle ADC \sim \triangle BDC$



④ $\triangle ABC \sim \triangle ADE$

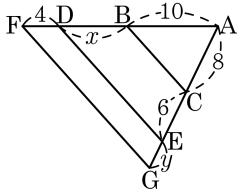


⑤ $\triangle ABC \sim \triangle DEF (\angle BAE = \angle FBC = \angle DCA)$

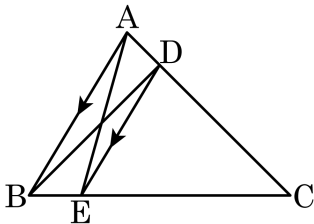


2. 다음 그림과 같이 $\overline{BC} \parallel \overline{DE} \parallel \overline{FG}$ 일 때,
 $x + y$ 의 값은?

- ① 11.7 ② 10.7 ③ 9.7
- ④ 8.7 ⑤ 7.7

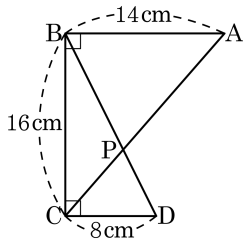


3. 다음 그림과 같은 $\triangle ABC$ 에서 $\overline{AB} \parallel \overline{DE}$ 이고, $\triangle ABC = 30$, $\triangle DBC = 24$ 일 때, $\triangle ABE$ 의 넓이를 구하여라.



답: _____

4. 다음 그림에서 $\triangle PBC$ 의 넓이는?



① $\frac{447}{11}\text{ cm}^2$

② $\frac{448}{11}\text{ cm}^2$

③ $\frac{449}{11}\text{ cm}^2$

④ $\frac{500}{11}\text{ cm}^2$

⑤ $\frac{552}{11}\text{ cm}^2$

5. 다음 그림에서 옳은 것은 무엇인가?

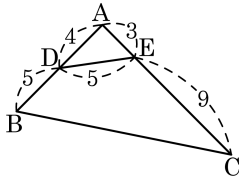
① $\triangle ABC \sim \triangle AED$ (SSS답음)

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

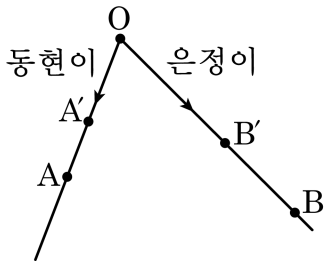
③ $\overline{BC} = 10 \text{ cm}$

④ $\angle AED$ 의 대응각은 $\angle ACB$

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

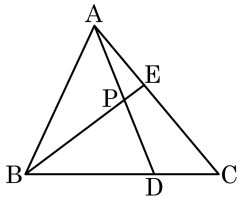


6. 동현이와 은정이는 다음 그림에서 출발점 O 에서 A, B 방향으로 각각 분속 3m/min , 5m/min 의 속력으로 달릴 때, 15 분 후의 동현이와 은정이의 위치를 각각 A', B' 이라고 하자. A' 과 A 사이의 거리가 15m 일 때, B' 과 B 사이의 거리는?



- ① 15m ② 20m ③ 25m ④ 30m ⑤ 35m

7. 다음 그림 $\triangle ABC$ 에서 $\overline{DP} : \overline{PA} = \overline{BD} : \overline{DC} = 3 : 2$ 이다. $\triangle ABP$ 의 넓이가 10 cm^2 일 때, $\triangle ABC$ 의 넓이는?



① $\frac{112}{5}\text{ cm}^2$

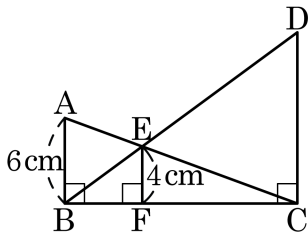
④ $\frac{123}{11}\text{ cm}^2$

② $\frac{113}{4}\text{ cm}^2$

⑤ $\frac{133}{7}\text{ cm}^2$

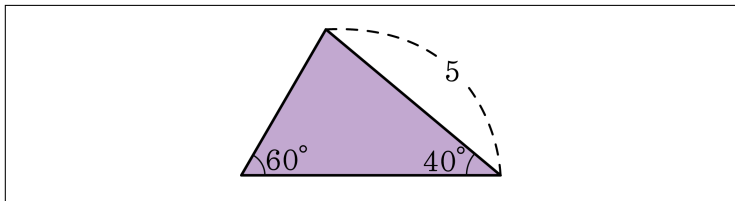
③ $\frac{125}{3}\text{ cm}^2$

8. 다음 그림에서 $\overline{AB}$, $\overline{EF}$, $\overline{DC}$ 는 모두 $\overline{BC}$ 에 수직이다. 이때, $\overline{DC}$ 의 길이는?

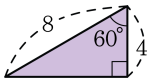


- ① 10 ② 11 ③ 12 ④ 13 ⑤ 14

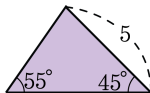
9. 다음 삼각형 중에서 주어진 삼각형과 닮은 삼각형은?



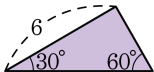
①



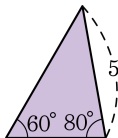
②



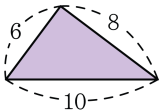
③



④



⑤



10. 그림과 같이 $\overline{BC} \parallel \overline{DE}$ 일 때, $\overline{DQ}$ 의 길이는?

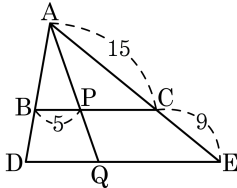
① 7

② 8

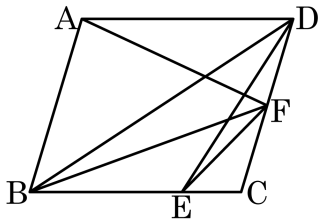
③ 9

④ 10

⑤ 11



11. 다음 그림은 평행사변형 ABCD 이다. 다음 중 옳은 것을 모두 고르면?



① $\triangle ADF = \triangle BDF$

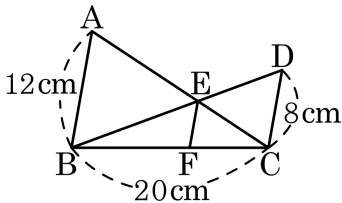
② $\triangle DBF = \triangle DEF$

③ $\triangle BDE = \triangle BFE$

④ $\triangle ADB = \triangle AFB$

⑤ $\triangle BDE = \triangle EDC$

12. 다음 그림에서 $\overline{AB} // \overline{EF} // \overline{DC}$ 일 때, $\overline{EF}$ 의 길이는?



① $\frac{21}{5}$ cm

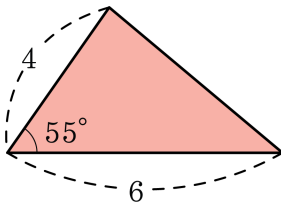
② $\frac{22}{5}$ cm

③ $\frac{23}{5}$ cm

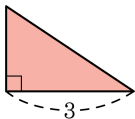
④ $\frac{24}{5}$ cm

⑤ $\frac{26}{3}$ cm

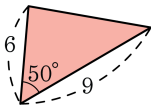
13. 다음 주어진 삼각형과 닮은 삼각형을 알맞게 짝지은 것은?



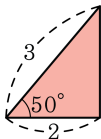
①



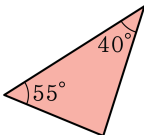
②



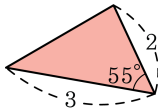
③



④



⑤



14. 다음 그림에서 $\ell // m // n$ 이다. x 의 값
은?

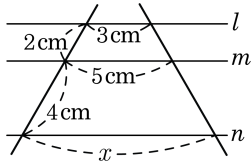
① 8cm

② 9cm

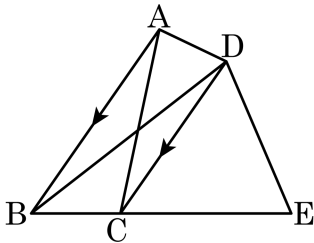
③ 10cm

④ 10.5cm

⑤ 11cm



15. 다음 그림과 같이 $\overline{AB} \parallel \overline{CD}$ 이고 $\triangle DCE = 30\text{cm}^2$, $\triangle DBC = 15\text{cm}^2$ 일 때, $\square ACED$ 의 넓이는?



① 25cm^2

② 30cm^2

③ 35cm^2

④ 40cm^2

⑤ 45cm^2