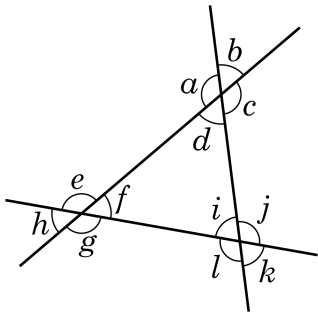


1. 다음 중 $\angle d$ 와 엇각인 것을 모두 고른 것은?



① $\angle e$, $\angle i$

② $\angle e$, $\angle j$

③ $\angle l$, $\angle g$

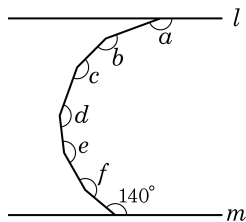
④ $\angle f$, $\angle i$

⑤ $\angle f$, $\angle j$

해설

$\angle d$ 와 엇각인 위치에 있는 각은 $\angle e$ 와 $\angle j$ 이다.

2. 다음 그림에서 직선 l, m 이 평행할 때, $\angle a + \angle b + \angle c + \angle d + \angle e + \angle f$ 의 크기를 구하여라.



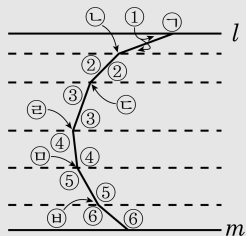
▶ 답 :

—°

▷ 정답 : 940°

해설

두 직선 l, m 에 평행한 보조선을 그으면 다음 그림의 ① ~ ㉞ 의 엇각이 표시된다.



$$\begin{aligned}
 & \angle a + \angle b + \angle c + \angle d + \angle e + \angle f + 140^\circ \\
 &= \textcircled{7} + (\textcircled{1} + \textcircled{㉟}) + (\textcircled{2} + \textcircled{㉠}) + (\textcircled{3} + \textcircled{㉡}) \\
 &\quad + (\textcircled{4} + \textcircled{㉢}) + (\textcircled{5} + \textcircled{㉣}) + \textcircled{6} \\
 &= (\textcircled{7} + \textcircled{1}) + (\textcircled{㉠} + \textcircled{2}) + (\textcircled{㉡} + \textcircled{3}) + (\textcircled{㉢} + \textcircled{4}) \\
 &\quad + (\textcircled{㉣} + \textcircled{5}) + (\textcircled{㉠} + \textcircled{6}) \\
 &= 180^\circ + 180^\circ + 180^\circ + 180^\circ + 180^\circ + 180^\circ \\
 &= 1080^\circ
 \end{aligned}$$

$$\begin{aligned}
 \therefore \angle a + \angle b + \angle c + \angle d + \angle e + \angle f \\
 &= 1080^\circ - 140^\circ = 940^\circ
 \end{aligned}$$