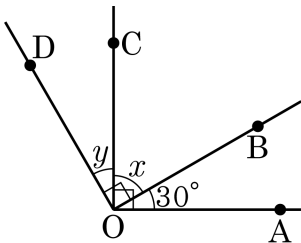


1. 다음 그림에서 $\angle x$, $\angle y$ 의 크기를 순서대로 구하여라.



▶ 답: 0

▶ 답: ○

▷ 정답 : $\angle x = 60^\circ$

▷ 정답 : $\angle y = 30^\circ$

해설

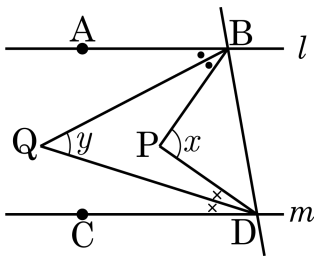
$$\angle x + 30^\circ = 90^\circ$$

$$\therefore \angle x = 60^\circ$$

$$60^\circ + \angle y = 90^\circ$$

$$\therefore \angle y = 30^\circ$$

2. 다음 그림에서 $l \parallel m$ 이고, $\angle ABP = \angle PBD$, $\angle PDB = \angle PDC$ 일 때, $\angle x + \angle y$ 의 값을 구하여라.



▶ 답 : $\underline{\hspace{1cm}}^{\circ}$

▷ 정답 : 135°

해설

$$\angle PBD + \angle PDB = 180^{\circ} \times \frac{1}{2} = 90^{\circ}, \angle x = 180^{\circ} - 90^{\circ} = 90^{\circ}$$

$$\angle QBP + \angle QDP = 90^{\circ} \times \frac{1}{2} = 45^{\circ}$$

$$\angle QBD + \angle QDB = 90^{\circ} + 45^{\circ} = 135^{\circ}$$

$$\angle y = 180^{\circ} - 135^{\circ} = 45^{\circ}$$

$$\therefore \angle x + \angle y = 90^{\circ} + 45^{\circ} = 135^{\circ}$$