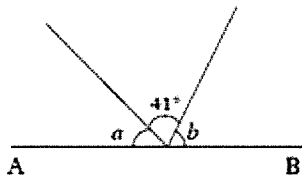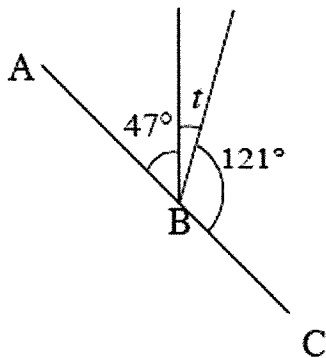# Ch 12 Study Guide

1. ***AB*** **is a straight line. Find the sum, in degrees, of the measures of** $\angle a$ **and** $\angle b$**. The diagram is not drawn to scale.**

$180 - 41 = 139$

139 degrees

C

2. ***AC*** **is a straight line. Find the measure of** $\angle t$**. The diagram is not drawn to scale.**
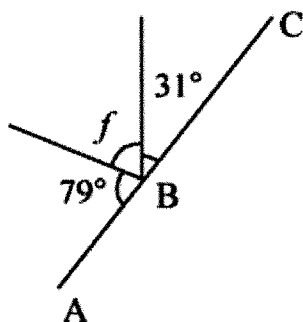
$180 - 168 = 12$

$121 + 47 = 168$

A. 23°
B. 18°
C. 12°
D. 8°

___A___ 3. **AC is a straight line. Find the measure of ∠f. The diagram is not drawn to scale.**
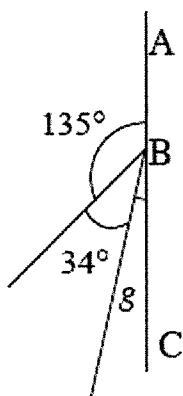

$180 - 110 = 70$

$79 + 31 = 110$

A. 70°
B. 61°
C. 59°
D. 48°

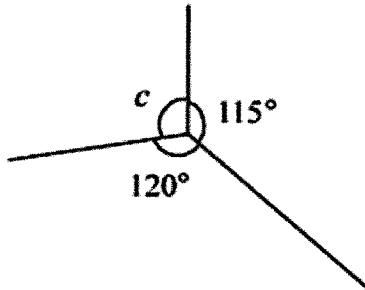___C___ 4. **AC is a straight line. Find the measure of ∠g. The diagram is not drawn to scale.**

$135 + 34 = 169$

$180 - 169 = 11$

A. 56°
B. 25°
C. 11°
D. 6°

11 degrees

_____   5. **Find the measure, in degrees, of ∠c. The diagram is not drawn to scale.**
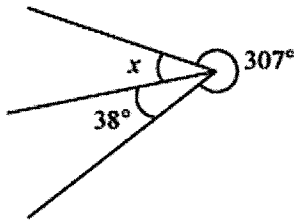
$120 + 115 = 235$

125 degrees

$360 - 235 = 125$

D   6. **Find the measure of ∠x. The diagram is not drawn to scale.**

307°

38°
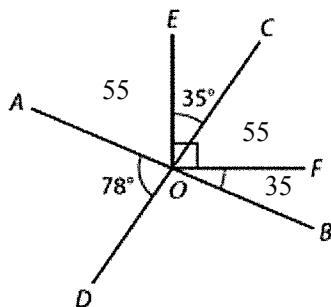
A. 52°
B. 33°
C. 25°
D. 15°

7. **AB, CD, EO, and FO are straight lines. Find the measure, in degrees, of ∠FOB. The diagram is not drawn to scale.**

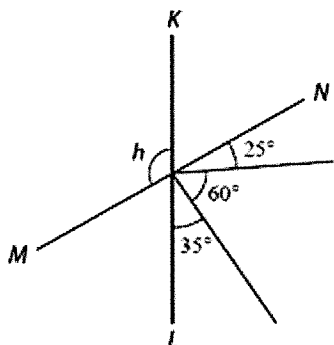$90 - 35 = 55$ degrees

35 degrees

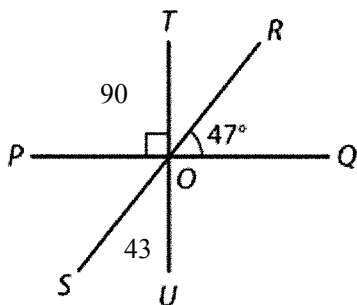$35 + 55 = 90 + 55 = 145$

$180 - 145 = 35$

_____ 8. **KL** and **MN** are straight lines. Find the measure, in degrees, of $\angle h$. The diagram is not drawn to scale.

$180 - 60 = 120$

120 degrees

_____ 9. **PQ, RS,** and **TU** are straight lines. Find the measure, in degrees, of $\angle SOU$. The diagram is not drawn to scale.
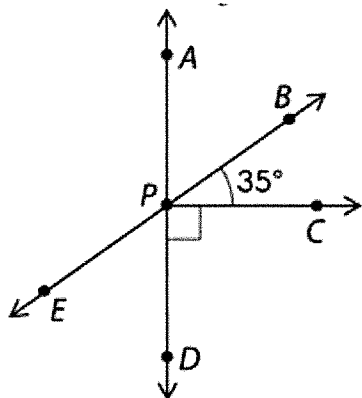
$47 + 90 = 137$

$180 - 137 = 43$

43 degrees

_____ 10. $\overrightarrow{AD}$ and $\overrightarrow{BE}$ are straight lines. Find the measure of $\angle p$
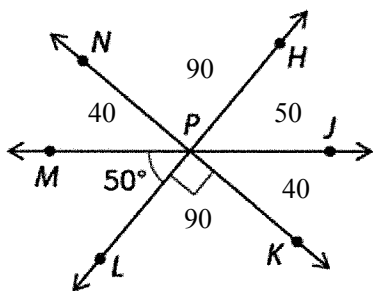
$90 + 35 = 125$

$180 - 125 = 55$

125 degrees

$180 - 55 = 125$

_____ 11. $\overset{\leftrightarrow}{HL}$, $\overset{\leftrightarrow}{JM}$ and $\overset{\leftrightarrow}{KN}$ are straight lines. Find the measure of $\angle JPN$.

$90 + 50 = 140$

$40 + 90 = 130$

$180 - 140 = 40$ degrees

$180 - 130 = 50$

JPK is 40 degrees

MPM is 40 degrees

50 degrees

_____ 12. The six angles of a point all have the same measure. What is the measure of each angle?

360 divided by 2 = 180

180 divided by 3 = 60 degrees

360 divided by 6 = 60 degrees

60 degrees