#9

Solving △

$23^2 = 17^2 + 18^2 - 2(17)(18)\cos A$

$529 = 289 + 324 - 612\cos A$

$529 = 613 - 612\cos A$

$-613 \quad -613$

$-84 = -612\cos A$

$\frac{-84}{-612} = \frac{-612\cos A}{-612}$

$\frac{-84}{-612} = \frac{-612m}{-612}$

$.1372 = \cos A$

$\cos^{-1}(.1372) = A = 82.1°$

$\frac{\sin B}{18} = \frac{\sin 82.1}{23}$

$\frac{23 \cdot \sin B}{23} = \frac{18 \cdot \sin 82.1}{23}$

$\sin B = .77518$

$\sin^{-1}(.77518)$

$m\angle B = 50.8°$

$m\angle C = 180 - 82.1 - 50.8$

$m\angle C = 47.1°$