

$$3. \quad a=9 \quad b=8 \quad c=11$$

$$A = \cos^{-1} \left(\frac{b^2 + c^2 - a^2}{2bc} \right)$$

$$B = \cos^{-1} \left(\frac{a^2 + c^2 - b^2}{2ac} \right)$$

$$C = 180^\circ - A - B$$

$$A = \cos^{-1} \left(\frac{8^2 + 11^2 - 9^2}{2(8)(11)} \right)$$

$$B = \cos^{-1} \left(\frac{9^2 + 11^2 - 8^2}{2(9)(11)} \right)$$

$$C = 180^\circ - 53.78^\circ - 45.82^\circ$$

$$A = \cos^{-1} \left(\frac{(64 + 121 - 81)}{(2(88))} \right)$$

$$= \cos^{-1} \left(\frac{(81 + 121 - 64)}{(2(99))} \right)$$

$$C = 80.4^\circ$$

$$A = 53.78^\circ$$

$$B = 45.82^\circ$$