

$$A = \frac{1}{2} r^2 \theta$$

$$= \frac{1}{2} (10)^2 \left(\frac{2\pi}{3} \right)$$

$$= 100\pi$$

$$= 314.16$$

$$A = \frac{1}{2} ab \sin C$$

$$= \frac{1}{2} (10)(10) \sin \left(\frac{2\pi}{3} \right)$$

$$= 43.3$$

$$A = 314.16 - 43.3$$

$$= 270.86$$

