

18. $x^2 = 10^2 + 18^2 - 2 \cdot 10 \cdot 18 \cdot \cos 40^\circ = 100 + 324 - 360 \cos 40^\circ \approx 148.224$ and so
 $x \approx \sqrt{148.224} \approx 12.2$.

20. $4^2 = 10^2 + 11^2 - 2 \cdot 10 \cdot 11 \cdot \cos \theta$. Then $\cos \theta = \frac{4^2 - 10^2 - 11^2}{-2 \cdot 10 \cdot 11} = \frac{-205}{-220} \approx 0.932 \Leftrightarrow$
 $\theta \approx \cos^{-1} 0.932 \approx 21.3^\circ$.

22. $\sin \theta = \frac{10 \cdot \sin 40^\circ}{8} \approx 0.803 \Leftrightarrow \theta \approx \sin^{-1} 0.803 \approx 53.5^\circ$ or $\theta \approx 180^\circ - 53.5^\circ \approx 126.5^\circ$.

24. $\angle A = 180^\circ - 98^\circ - 25^\circ = 57^\circ$. Then $x = \frac{1000 \cdot \sin 98^\circ}{\sin 57^\circ} \approx 1180.8$.