

## Answers to 6-3 Law of Cosines/Sines (ID: 1)

- 1)  $m\angle A = 122^\circ$ ,  $b = 12$  yd,  $c = 25$  yd
- 3)  $m\angle B = 30^\circ$ ,  $m\angle C = 32^\circ$ ,  $b = 17$  m
- 5)  $m\angle A = 131.4^\circ$ ,  $m\angle B = 28.6^\circ$ ,  $a = 21.9$  ft  
Or  $m\angle A = 8.6^\circ$ ,  $m\angle B = 151.4^\circ$ ,  $a = 4.4$  ft
- 7)  $m\angle B = 122^\circ$ ,  $m\angle C = 31^\circ$ ,  $m\angle A = 27^\circ$
- 9)  $m\angle B = 68^\circ$ ,  $m\angle C = 59.4^\circ$ ,  $m\angle A = 52.6^\circ$
- 11)  $m\angle C = 23.5^\circ$ ,  $m\angle A = 57.5^\circ$ ,  $b = 19.9$  km
- 2)  $m\angle B = 41.1^\circ$ ,  $m\angle A = 25.9^\circ$ ,  $a = 10$  in
- 4)  $m\angle B = 56^\circ$ ,  $c = 30$  km,  $a = 40$  km
- 6)  $m\angle B = 11^\circ$ ,  $a = 37.9$  km,  $b = 15.9$  km
- 8)  $m\angle A = 38.2^\circ$ ,  $m\angle B = 52.7^\circ$ ,  $m\angle C = 89.1^\circ$
- 10)  $m\angle C = 115^\circ$ ,  $m\angle A = 24^\circ$ ,  $m\angle B = 41^\circ$
- 12)  $m\angle C = 26^\circ$ ,  $m\angle A = 137^\circ$ ,  $m\angle B = 17^\circ$