

Answers to AP Precalculus Unit 3: SSA Extra Practice Wkst

Answers to Part a

1. 2 solutions
2. 0 solutions
3. 2 solutions
4. 1 solution
5. 1 solution
6. 0 solutions
7. 1 solution
8. 1 solution
9. 2 solutions

Answers to Part b:

1. $P_1 = \sin^{-1}\left(\frac{9}{7}\sin 42\right) \approx 59.35^\circ$
 $P_2 = 180 - \sin^{-1}\left(\frac{9}{7}\sin 42\right) \approx 120.65^\circ$
3. $P_1 = \sin^{-1}\left(\frac{8}{3}\sin 13\right) \approx 36.86^\circ$
 $P_2 = 180 - \sin^{-1}\left(\frac{8}{3}\sin 13\right) \approx 143.14^\circ$
9. $P_1 = \sin^{-1}\left(\frac{3}{2}\sin 38\right) \approx 67.44^\circ$
 $P_2 = 180 - \sin^{-1}\left(\frac{3}{2}\sin 38\right) \approx 112.56^\circ$