

Key for some problems in 8.2

25. One triangle; $B=30.7^\circ$, $C=99.3^\circ$, $c = 3.86$
26. One triangle; $a = 5.80$, $A=111.2^\circ$, $C=28.8$
27. One triangle; $C=36.2^\circ$, $A = 43.8^\circ$, $a = 3.51$
28. One triangle; $b = 1.30$, $B = 34.3^\circ$, $C = 25.7^\circ$
29. None
30. Two triangle; $a = 2.83$, $A = 65.4^\circ$, $C = 74.6^\circ$ or $a = 1.77$, $A = 34.6^\circ$, $C = 105.4^\circ$
31. Two triangles; $C = 30.9^\circ$, $A = 129.1^\circ$, $a=9.07$ or $C = 149.1^\circ$, $A = 10.9^\circ$, $a = 2.20$
32. None
33. None
34. None
35. Two triangles; $A = 57.7^\circ$, $B = 97.3^\circ$, $b = 2.35$ or $A = 122.3^\circ$, $B = 32.7^\circ$, $b = 1.28$
36. Two triangles; $a = 6.21$, $A = 86.5^\circ$, $C = 53.5^\circ$ or $a = 1.45$, $A = 13.5^\circ$, $C = 126.5^\circ$