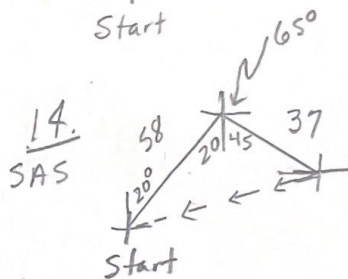
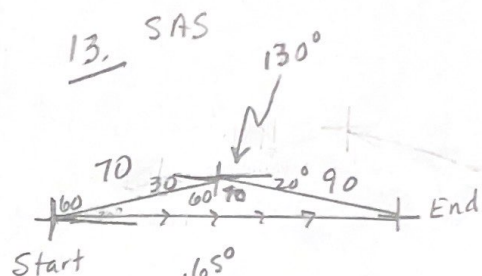


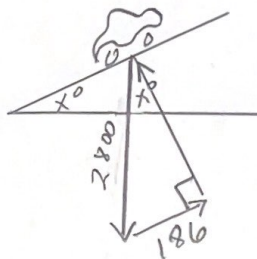
19. Tei uses a sprinkler to water his garden. The sprinkler discharges water with a velocity of 9 m/sec. If the angle of the water with the ground is 35° , how far (to the nearest hundredth) will the water travel in the horizontal direction?

TRIGONOMETRY REVIEW ANSWERS

1. $A = 20^\circ$
2. $B = 29^\circ$ and 151°
3. $b = 64$
4. $C = 104^\circ$ (must find smallest angle first after using Law of Cos)
5. No triangle
6. $a = 503$ (2^{nd} triangle does not work.)
7. (a) $\langle 0, -12 \rangle$ (b) $\langle 3\sqrt{3}, -9 \rangle$ (c) $\langle -13.7, -6.1 \rangle$
8. (a) $\|v\| = 6, \theta = 315^\circ$ (b) $\|v\| = 17, \theta = 152^\circ$
9. (a) 47 (b) -32
10. (a) parallel (b) orthogonal
11. 29°
12. 3975 ft.
13. 145 N at 2°
14. 54N at 212°
15. 4°
16. 151 mph
17. 159 km/h, 119°
18. yes; It will be 11.1 feet high.
19. 7.7 meters



15. SSA



17. SAS

