

Directions: Follow the instructions for each section. Show all of your work on another sheet of paper.

I. Find the value of the trig function indicated.

1. Find $\cot \theta$ if $\sin \theta = \frac{5}{17}$.

2. Find $\cos \theta$ if $\csc \theta = 2$.

II. Solve the following right triangles. Angle C will be the right angle.

3. $B = 24^\circ$, $a = 8$

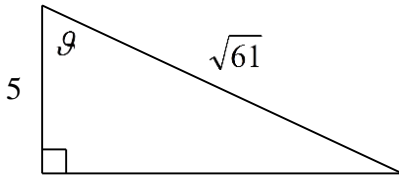
4. $A = 70^\circ$, $c = 30$

5. $a = 4$, $c = 7$

6. $b = 12$, $c = 19$

III. Evaluate the six trigonometric functions of θ .

7.



IV. Solve the following oblique triangles. Be sure to decide whether each triangle is ASA, AAS, SSA, SSS or SAS before deciding to use Law of Sines or Law of Cosines.

8. $A = 52^\circ$, $a = 10$, $c = 12.4$

9. $A = 42^\circ$, $a = 13$, $B = 59.2^\circ$

10. $b = 16$, $a = 17.4$, $c = 20$

11. $A = 128^\circ$, $b = 142$, $c = 200$

12. $a = 30.2$, $c = 18$, $C = 57.9^\circ$

13. $B = 82^\circ$, $C = 47^\circ$, $a = 342$

14. $A = 110^\circ$, $a = 37$, $c = 35.2$

15. $B = 98^\circ$, $a = 11.7$, $b = 19.5$

V. Go to pg 482 and try #'s 19 and 31.