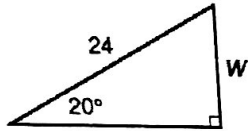


Geometry
Trig Review

Name _____
Date _____ Block _____

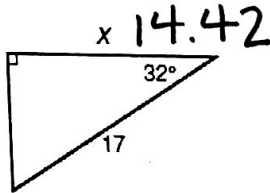
1. Find the missing angle or side indicated. Round each to the nearest hundredth.

a.



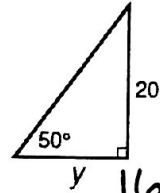
8.21

b.



14.42

c.



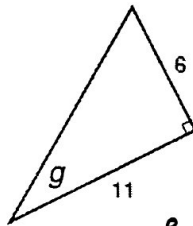
16.78

e.



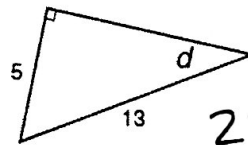
17.60

f.



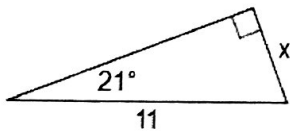
28.61°

g.



22.62°

2. Using the figure below and the table of values, find the missing variable rounded to the nearest hundredth.

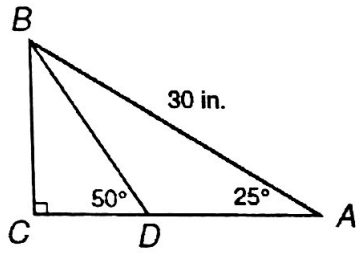


3.94

$\sin(21^\circ) = .3584$	$\cos(21^\circ) = .9336$	$\tan(21^\circ) = .3839$
--------------------------	--------------------------	--------------------------

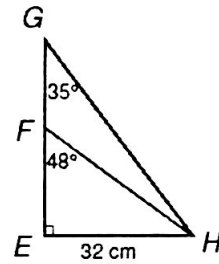
3. Find the missing sides.

a.



$$BC = \underline{12.68 \text{ in}} \quad BD = \underline{16.55 \text{ in}}$$

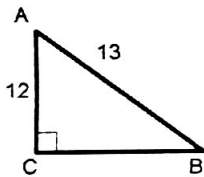
b.



$$EF = \underline{28.81 \text{ cm}} \quad EG = \underline{45.7 \text{ cm}}$$

$$GF = \underline{16.89 \text{ cm}}$$

4. Find the missing leg of the triangle. Then find the value of $\sin A$, $\cos B$, and $\tan A$.



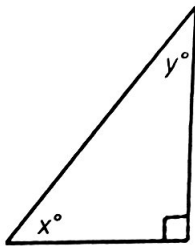
$$CB = \underline{5}$$

$$\sin A = \underline{5/13}$$

$$\cos B = \underline{5/13}$$

$$\tan A = \underline{5/12}$$

5. In the triangle below, the sine of x° is 0.6. What is the cosine of y° ?



$$0.6$$

6. In right triangle XYZ, angle X and Y are complementary angles. The value of $\sin X$ is $\frac{35}{37}$. What is the value of $\cos Y$?

$$\frac{35}{37}$$

7. In a given right triangle let $\cos \theta = \frac{2}{5}$. What is $\sin (90-\theta)^\circ$?

$$\frac{2}{5}$$

8. Luis' cat, Tabby, is stuck on a branch up a tree. To rescue Tabby, Luis placed the base of a 10 foot ladder 3 feet from the bottom of the tree. What is the height of the branch of which Tabby is stuck?

$$\sqrt{91} = 9.54 \text{ ft.}$$

9. Jake plans to use a ramp to make it easier to move a piano out of the back of his truck. The back of the truck is 33 inches tall and the ramp is 65 inches long. What is the horizontal distance from the end of the ramp to the back of the truck?

$$56 \text{ in.}$$

10. A ladder is leaning against the side of a house and forms a 65° angle with the ground. The foot of the ladder is 8 feet from the house. Find the length of the ladder.

$$18.93 \text{ ft.}$$

11. A lighthouse built at sea level is 150 feet high. From its top, the angle of depression of a buoy is 25° . Find the distance from the buoy to the foot of the lighthouse.

$$321.68 \text{ ft.}$$

12. A train in the mountains rises 10 feet for every 250 feet it moves along the track. Find the angle of elevation of the track.

$$2.29^\circ$$

13. A plane rose from take-off and flew at an angle of 11° with the ground. When it reached an altitude of 500 feet, what was the horizontal distance the plane had flown?

$$2,572.28 \text{ ft.}$$

14. A tower is 125 ft tall and uses 200 ft long support wires attached to the ground. What is the angle of elevation that would be necessary to use these support wires?

$$32.01^\circ$$