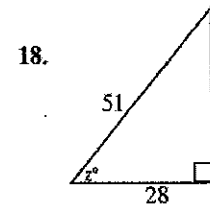
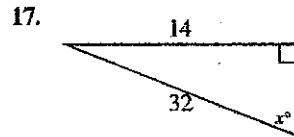
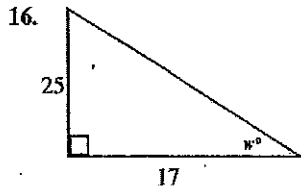
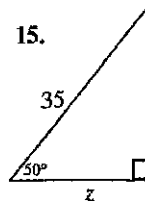
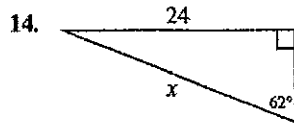
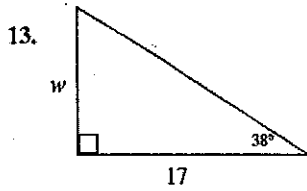


Trig Review Sheet



- A person at the top of a cliff 100 feet tall sees Gilligan's boat. His sighting of the boat is at an angle of depression of  $10^\circ$ . How far is the boat from the base of the cliff?
- A 24 foot ladder is leaned against a wall at  $55^\circ$  with the ground. How far away from the wall is the base of the ladder?
- A 32 in. bat is leaning against a fence. If the bat is 15 in. away from the base of the fence, what angle is formed between the ground and the bat?

Find the exact values of  $\cos\theta$  and  $\sin\theta$  for each angle measure.

13.  $-120^\circ$

14.  $135^\circ$

15.  $-\frac{2\pi}{3}$  radians

Evaluate each expression. Write your answer in exact form. If the expression is undefined, write *undefined*.

24.  $\sec(-30^\circ)$

25.  $\csc 270^\circ$

26.  $\cot 210^\circ$

27.  $\sec 90^\circ$

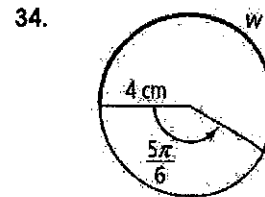
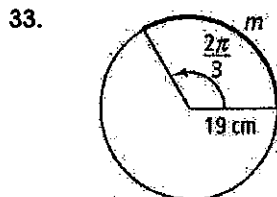
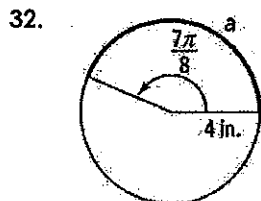
Find the exact values of the cosine and sine of each angle.

15.  $30^\circ$

16.  $750^\circ$

17.  $5\pi$

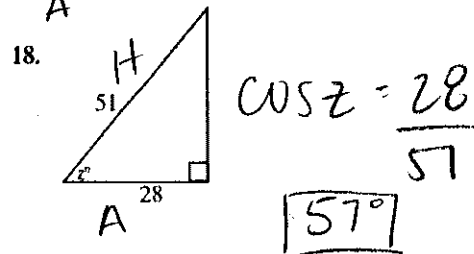
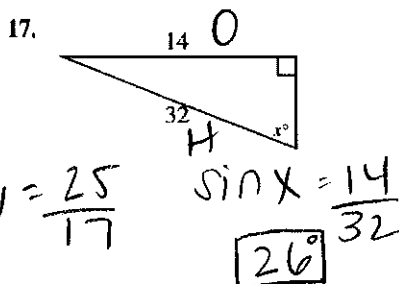
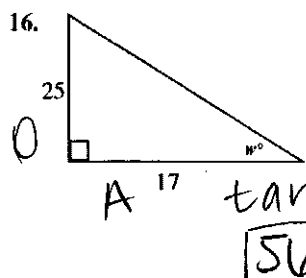
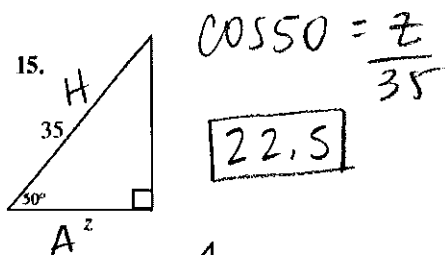
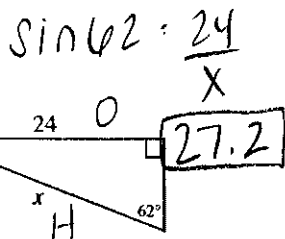
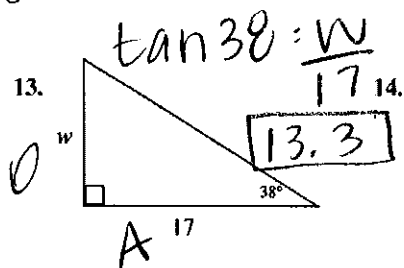
Use each circle to find the length of the indicated arc. Round your answer to the nearest tenth.



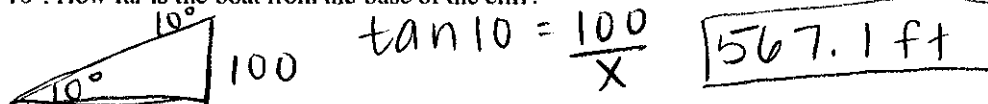
Honors

Trig Review Sheet

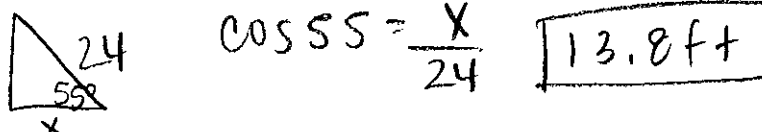
Key



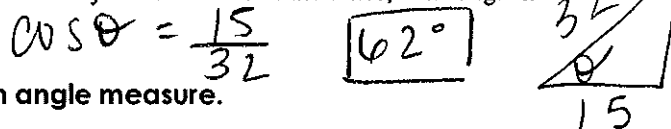
5. A person at the top of a cliff 100 feet tall sees Gilligan's boat. His sighting of the boat is at an angle of depression of  $10^\circ$ . How far is the boat from the base of the cliff?



6. A 24 foot ladder is leaned against a wall at  $55^\circ$  with the ground. How far away from the wall is the base of the ladder?



7. A 32 in. bat is leaning against a fence. If the bat is 15 in. away from the base of the fence, what angle is formed between the ground and the bat?



Find the exact values of  $\cos \theta$  and  $\sin \theta$  for each angle measure.

13.  $-120^\circ$

$(-\frac{1}{2}, -\frac{\sqrt{3}}{2})$

14.  $135^\circ$

$(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$

15.  $-\frac{2\pi}{3}$  radians

$(-\frac{1}{2}, -\frac{\sqrt{3}}{2})$

Evaluate each expression. Write your answer in exact form. If the expression is undefined, write undefined.

24.  $\sec(-30^\circ)$

$\frac{2\sqrt{3}}{2}$

25.  $\csc 270^\circ$

$-1$

26.  $\cot 210^\circ$

$\frac{\sqrt{3}}{3}$

27.  $\sec 90^\circ$

undefined

Find the exact values of the cosine and sine of each angle.

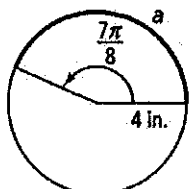
15.  $30^\circ (\frac{\sqrt{3}}{2}, \frac{1}{2})$

16.  $75^\circ (\frac{\sqrt{3}}{2}, \frac{1}{2})$

17.  $5\pi (-1, 0)$

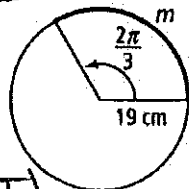
Use each circle to find the length of the indicated arc. Round your answer to the nearest tenth.

32.



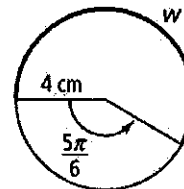
$(\frac{7\pi}{8}) 4 = 11.0$

33.



$(\frac{2\pi}{3}) 19 = 39.8$

34.



$(\frac{5\pi}{6}) 4 = 10.5$

Honors