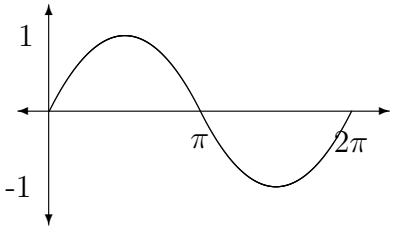
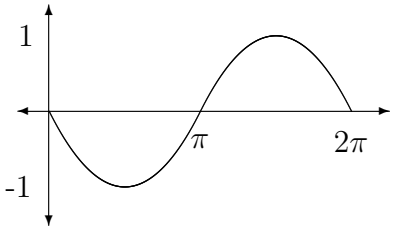
Algebra II/Trig Worksheet 2 Name: Per:



1.



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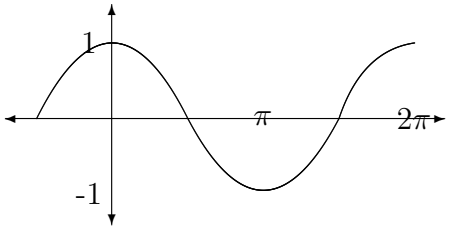

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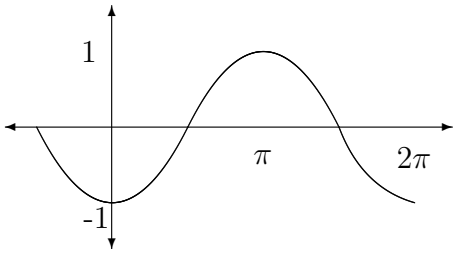
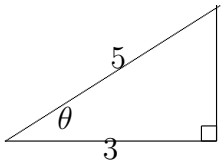


4.

5. What is the exact value of $\cos\theta$?



6. What is the $\tan\theta$?

7. How many radians in a right angle?

8. How many radians in a straight angle?

9. How many degrees is $\frac{\pi}{6}$ radians?

10. How many radians does a minute hand on a clock move in 10 minutes?

11. What is the exact value of $\sin\frac{\pi}{4}$?

12. What is the exact value of $\cot\frac{\pi}{4}$?

13. What is the exact value of $\sec\frac{\pi}{6}$?

14. What is the exact value of $\csc\frac{\pi}{3}$?

15. Consider a 30-60-90 triangle. Find an angle θ(in radians) such that $\tan\theta = \sqrt{3}$

16. Consider a 30-60-90 triangle. Find an angle θ(in radians) such that $\sin\theta = \frac{1}{2}$

17. Consider a 30-60-90 triangle. Find an angle θ(in radians) such that $\sec\theta = \frac{\sqrt{3}}{2}$

18. Consider a 30-60-90 triangle. Find an angle θ(in radians) such that $\csc\theta = \frac{\sqrt{3}}{2}$

19. Consider a 30-60-90 triangle. Find an angle θ(in radians) such that $\cot\theta = \sqrt{3}$

20. Consider a 30-60-90 triangle. Find an angle θ(in radians) such that $\cos\theta = \frac{2\sqrt{3}}{3}$

21. Consider a 90-45-45 triangle. Find an angle θ(in radians) such that $\cot\theta = 1$

22. Consider a 90-45-45 triangle. Find an angle θ(in radians) such that $\csc\theta = \frac{\sqrt{2}}{2}$