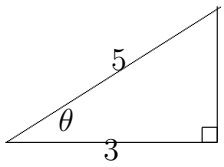
Algebra II/Trig Worksheet 1 Name: Per:

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



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

3. How many radians in a right angle?

4. How many radians in a straight angle?

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

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

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

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

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

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

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

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

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

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

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

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

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

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