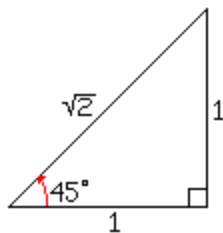
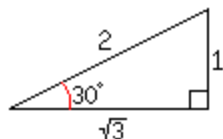


Special Right Triangles
Jefferson Davis Learning Center
Sandra Peterson

Use the special right triangles to give the exact value for each of the trigonometric functions.



- | | | |
|--|--|--|
| 1. $\sin 30^\circ = \underline{\hspace{1cm}}$ | 2. $\tan 45^\circ = \underline{\hspace{1cm}}$ | 3. $\csc 60^\circ = \underline{\hspace{1cm}}$ |
| 4. $\sec 30^\circ = \underline{\hspace{1cm}}$ | 5. $\sec 60^\circ = \underline{\hspace{1cm}}$ | 6. $\sin 45^\circ = \underline{\hspace{1cm}}$ |
| 7. $\cos 30^\circ = \underline{\hspace{1cm}}$ | 8. $\sin 60^\circ = \underline{\hspace{1cm}}$ | 9. $\csc 45^\circ = \underline{\hspace{1cm}}$ |
| 10. $\tan 60^\circ = \underline{\hspace{1cm}}$ | 11. $\cos 45^\circ = \underline{\hspace{1cm}}$ | 12. $\tan 30^\circ = \underline{\hspace{1cm}}$ |
| 13. $\cot 30^\circ = \underline{\hspace{1cm}}$ | 14. $\cos 60^\circ = \underline{\hspace{1cm}}$ | 15. $\sec 45^\circ = \underline{\hspace{1cm}}$ |
| 16. $\cot 60^\circ = \underline{\hspace{1cm}}$ | 17. $\csc 30^\circ = \underline{\hspace{1cm}}$ | 18. $\cot 45^\circ = \underline{\hspace{1cm}}$ |

Answers:

- | | | |
|--------------------------|--------------------------|--------------------------|
| 1. $\frac{1}{2}$ | 2. 1 | 3. $\frac{2\sqrt{3}}{3}$ |
| 4. $\frac{2\sqrt{3}}{3}$ | 5. 2 | 6. $\frac{\sqrt{2}}{2}$ |
| 7. $\frac{\sqrt{3}}{2}$ | 8. $\frac{\sqrt{3}}{2}$ | 9. $\sqrt{2}$ |
| 10. $\sqrt{3}$ | 11. $\frac{\sqrt{2}}{2}$ | 12. $\frac{\sqrt{3}}{3}$ |
| 13. $\sqrt{3}$ | 14. $\frac{1}{2}$ | 15. $\sqrt{2}$ |
| 16. $\frac{\sqrt{3}}{3}$ | 17. 2 | 18. 1 |

Please visit the Math Center for further assistance.