

PRECALCULUS
EVALUATING TRIG FUNCTIONS WORKSHEET

NAME _____ BLK. _____

Evaluate each of the following TRIG functions. Give Exact answers, NO decimals. Write answers as single fractions as necessary.

1. $\csc 2\pi/3$ _____

2. $\cot 7\pi/4$ _____

3. $\sin 7\pi/6$ _____

4. $12 \tan \pi/6$ _____

5. $\sec 3\pi/4$ _____

6. $4\sqrt{3} \tan \pi/6$ _____

7. $\tan 11\pi/6$ _____

8. $3\sqrt{2} \sin \pi/4$ _____

9. $\sqrt{2} \sin 3\pi/4 + \cos (-5\pi/3)$ _____

10. $3\sqrt{2} \sin \pi/6 + 4 \tan \pi/6$.

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11. $-3 \cos \pi/6 - 4 \sin (-11\pi/4) - 2 \sin 6\pi + \cos 7\pi/2$

12. $6 \cos 2\pi/3 - 4 \tan (-13\pi/6) - 2 \sin 5\pi + \cos 9\pi/2$

13. $\cos 7\pi - \sin 9\pi/2 + 3 \tan 3\pi/4$

14. $4 \tan (-15\pi/4) - 2 \sin 5\pi/3$

15. $3 \sin \pi/6 + 4 \tan \pi/3$

16. $3\sqrt{3} \cos \pi/6$

17. $3 \sin 5\pi/3 + \cos (-\pi/6)$

18. $7\sqrt{3} \tan \pi/4 + 2\sqrt{3} \cos 2\pi/3$

19. $4 \sin (-19\pi/6) - 2 \sin \pi/3$

20. $3 \sin 25\pi/6 - 2 \cos (-19\pi/4) + 4 \tan 7\pi$

21. $\cos \pi/4 + \sin 5\pi/6$

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22. $\sec 7\pi/4 + \cot 5\pi/6$ _____

23. $\sqrt{3} \cos \pi/6 + 2 \tan \pi/3$ _____

24. $\sec^2 7\pi/6 + \sin^2 15\pi/4$ _____

25. $2\sqrt{3} \cos \pi/4 + 3\sqrt{2} \sin \pi/3$ _____

26. $\sqrt{2} \cos 3\pi/4 + 3 \sin 5\pi/3$ _____

27. $\sqrt{3} \cos 7\pi/6 - 4 \sin 9\pi/4$ _____

28. $4 \cot 9\pi/4 - 2 \sin 8\pi/3$ _____

29. $3 \tan 13\pi/4 - 5 \sin 7\pi/2$ _____

30. $\sin 5\pi/4 + 3 \cos 2\pi/3$ _____

31. $\cos 3\pi/4 + \csc \pi/6$ _____

32. $4 \sin \pi/3 + 6 \sin \pi/4$ _____

33. $\sin^2 5\pi/4 + \cos^2 5\pi/4$ _____

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34. $\sin 7\pi/3 + 3 \cos 3\pi/4$

35. $5 \cos 5\pi/6 - 3 \tan 2\pi/3 + 3 \sin \pi/2$
