Period: _____

Evaluating Trig Functions

Evaluate each of the following. Write your EXACT answer (no decimals!)

1. $\tan\frac{\pi}{3}$ $\frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \frac{2\sqrt{3}}{2} = \sqrt{3}$

2. $\cos\frac{\pi}{4}$ $\frac{\sqrt{2}}{2}$

3. $\cos\frac{\pi}{2} = 0$

4. $\sin\frac{\pi}{6} = \frac{1}{2}$

5. $\tan\frac{\pi}{4} = 1$

6. $\sin\frac{\pi}{3}$ $\frac{\sqrt{3}}{2}$

7. $\cot\frac{\pi}{2} = 0$

8. $\csc\frac{-7\pi}{3}$ $-60°$ -420 $300°$ $= \text{sen}-\frac{\sqrt{3}}{2}$ $\cos$ $\frac{-2}{\sqrt{3}}\left(\frac{\sqrt{3}}{\sqrt{3}}\right) = -2\frac{\sqrt{3}}{3}$

9. $\sec\frac{-3\pi}{4}$ $-135°$ $225°$ $= -\frac{\sqrt{2}}{2} = \frac{-2}{\sqrt{2}}\left(\frac{\sqrt{2}}{\sqrt{2}}\right) = \frac{-2\sqrt{2}}{2} = -\sqrt{2}$

10. $\tan\frac{-9\pi}{2}$ undef

11. $\cot\frac{23\pi}{6}$ $-\sqrt{3}$

12. $\sec\frac{-10\pi}{3}$ -2

13. $\sin\frac{-23\pi}{6}$ $1/2$

14. $\csc\frac{-\pi}{4}$ $-\sqrt{2}$

15. $\cos\frac{13\pi}{3}$ $1/2$

16. $\cot -\pi$ undef

17. $\cos\frac{-7\pi}{4}$ $\sqrt{2}/2$

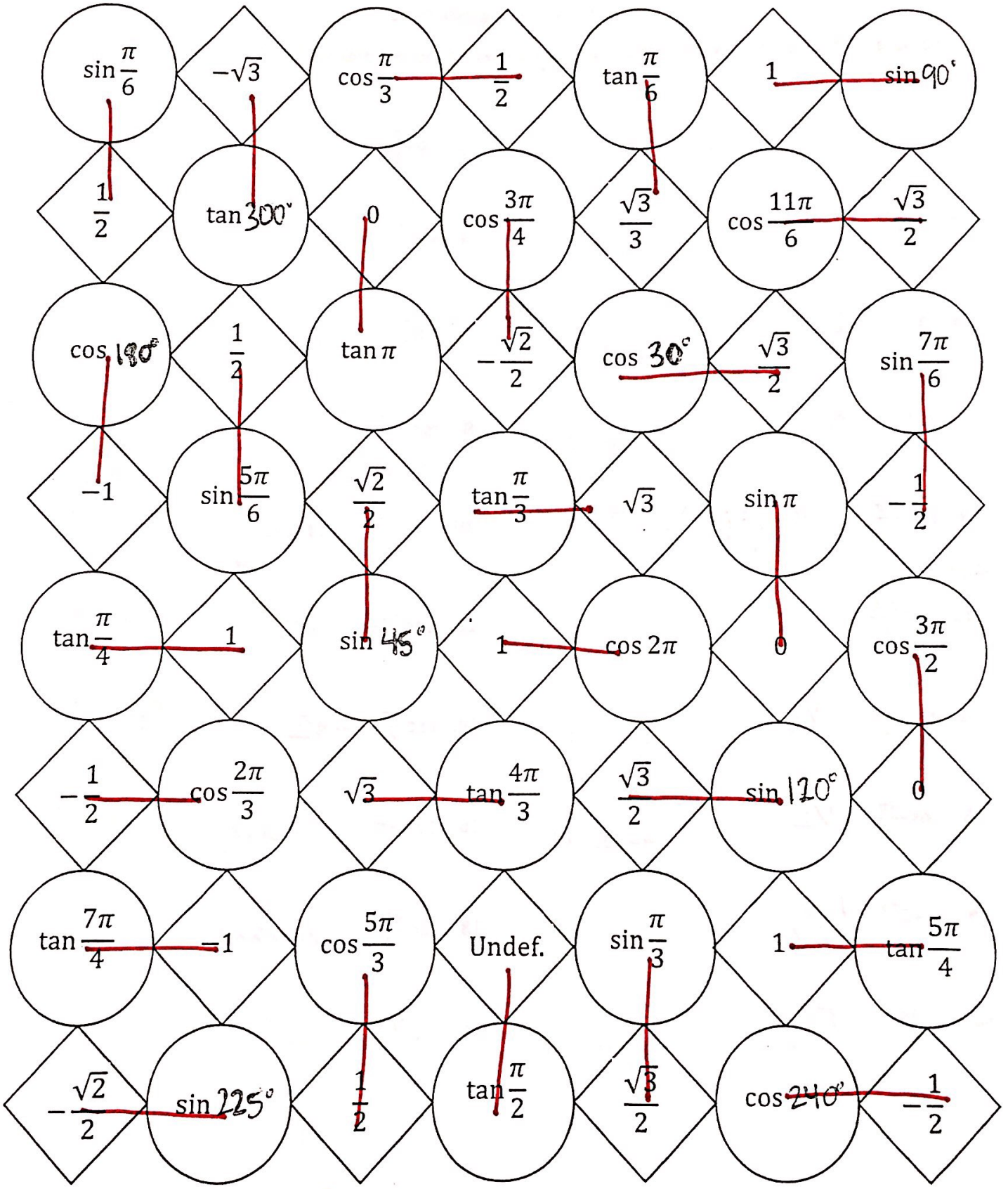
18. $\sec\frac{-5\pi}{2}$ undef

19. $\sin\frac{5\pi}{3}$ $-\sqrt{3}/2$

20. $\csc\frac{10\pi}{3}$ $-2\sqrt{3}/3$

Trigonometric Functions Maze

Directions: Every angle has a match. Pick three different colors, shade sine angles and measures in one color, cosine angles and measures in a second color and tangent angles and measures in the third color.



Jean Adams