

Name_____ Date____

Problems and Answers. Solve the problem #1 Calculate the following sum:

Answers

$$\cos^2(\frac{\pi}{3}) + \sin^2(\frac{7\pi}{6}) + tg^2(\frac{8\pi}{3}) + ctg^2(\frac{2\pi}{3}) = \underline{\hspace{1cm}}$$

Solve the problem #2 Calculate the following sum:

$$\cos^2(\frac{8\pi}{3}) + \sin^2(\frac{\pi}{6}) + tg^2(\frac{\pi}{3}) + ctg^2(\frac{7\pi}{6}) = ___$$

Solve the problem #3 Calculate the following sum:

$$\cos^2(\frac{8\pi}{3}) + \sin^2(\frac{2\pi}{3}) + tg^2(\frac{7\pi}{6}) + ctg^2(\frac{5\pi}{3}) = ___$$

Solve the problem #4 Calculate the following sum:

$$\cos^2(\frac{7\pi}{6}) + \sin^2(\frac{7\pi}{3}) + tg^2(\frac{9\pi}{4}) + ctg^2(\frac{\pi}{4}) =$$

Solve the problem #5 Calculate the following sum:

$$\cos^2(\frac{9\pi}{4}) + \sin^2(\frac{2\pi}{3}) + tg^2(\frac{7\pi}{6}) + ctg^2(\frac{7\pi}{3}) = ___$$

Solve the problem #6 Calculate the following sum:

$$\cos^2(\frac{\pi}{6}) + \sin^2(\frac{5\pi}{4}) + tg^2(\frac{5\pi}{3}) + ctg^2(\frac{\pi}{6}) =$$

Solve the problem #7 Calculate the following sum:

$$\cos^2(\frac{\pi}{4}) + \sin^2(\frac{7\pi}{6}) + tg^2(\frac{5\pi}{3}) + ctg^2(\frac{8\pi}{3}) = ___$$

Solve the problem #8 Calculate the following sum:

$$\cos^2(\frac{5\pi}{6}) + \sin^2(\frac{5\pi}{3}) + tg^2(\frac{8\pi}{3}) + ctg^2(\frac{\pi}{4}) =$$



Problems and Answers. Solve the problem #1 Calculate the following sum:

Answer keys

Answers

$$\cos^2(\frac{\pi}{3}) + \sin^2(\frac{7\pi}{6}) + tg^2(\frac{8\pi}{3}) + ctg^2(\frac{2\pi}{3}) = \frac{23/6}{3}$$

Solve the problem #2 Calculate the following sum:

$$\cos^2(\frac{8\pi}{3}) + \sin^2(\frac{\pi}{6}) + tg^2(\frac{\pi}{3}) + ctg^2(\frac{7\pi}{6}) = \frac{13/2}{6}$$

Solve the problem #3 Calculate the following sum:

$$\cos^2(\frac{8\pi}{3}) + \sin^2(\frac{2\pi}{3}) + tg^2(\frac{7\pi}{6}) + ctg^2(\frac{5\pi}{3}) = \frac{5/3}{2}$$

Solve the problem #4 Calculate the following sum:

$$\cos^2(\frac{7\pi}{6}) + \sin^2(\frac{7\pi}{3}) + tg^2(\frac{9\pi}{4}) + ctg^2(\frac{\pi}{4}) = \frac{7/2}{2}$$

Solve the problem #5 Calculate the following sum:

$$\cos^2(\frac{9\pi}{4}) + \sin^2(\frac{2\pi}{3}) + tg^2(\frac{7\pi}{6}) + ctg^2(\frac{7\pi}{3}) = \frac{23/12}{3}$$

Solve the problem #6 Calculate the following sum:

$$\cos^2(\frac{\pi}{6}) + \sin^2(\frac{5\pi}{4}) + tg^2(\frac{5\pi}{3}) + ctg^2(\frac{\pi}{6}) = \frac{29/4}{6}$$

Solve the problem #7 Calculate the following sum:

$$\cos^2(\frac{\pi}{4}) + \sin^2(\frac{7\pi}{6}) + tg^2(\frac{5\pi}{3}) + ctg^2(\frac{8\pi}{3}) = \frac{49/12}{6}$$

Solve the problem #8 Calculate the following sum:

$$\cos^2(\frac{5\pi}{6}) + \sin^2(\frac{5\pi}{3}) + tg^2(\frac{8\pi}{3}) + ctg^2(\frac{\pi}{4}) = \frac{11/2}{2}$$