

“Why were the screams coming from the kitchen?”

Make the conversion from degrees to radians and from radians to degrees. To figure out the joke, place the letter of each problem above the answer on the line(s) below.

Convert #1-6 from degrees to radians.

E. 20° A. 120° K. -145°

H. 320° G. -245° B. 630°

Convert #7-13 from radians to degrees.

Π. $\frac{\pi}{4}$ W. $\frac{2\pi}{5}$ T. $\frac{-5\pi}{60}$

S. $\frac{7\pi}{6}$ C. $\frac{13\pi}{3}$ I. $\frac{-5\pi}{4}$ O. $\frac{11\pi}{3}$

-15° $\frac{16\pi}{9}$ $\frac{\pi}{9}$ 780° 660° 660° $\frac{-29\pi}{36}$ 72° $\frac{2\pi}{3}$ 210°

$\frac{7\pi}{2}$ $\frac{\pi}{9}$ $\frac{2\pi}{3}$ -15° -225° 45° $\frac{-49\pi}{36}$

-15° $\frac{16\pi}{9}$ $\frac{\pi}{9}$ $\frac{\pi}{9}$ $\frac{-49\pi}{36}$ $\frac{-49\pi}{36}$ 210°

Find a coterminal angle between 0° and 360° .

13) -330°

14) -435°

15) 640°

16) -442°

Find a coterminal angle between 0 and 2π for each given angle.

17) $\frac{11\pi}{3}$

18) $-\frac{35\pi}{18}$

19) $\frac{15\pi}{4}$

20) $-\frac{19\pi}{12}$

Find a positive and a negative coterminal angle for each given angle.

21) $\frac{5\pi}{4}$

22) $\frac{25\pi}{36}$