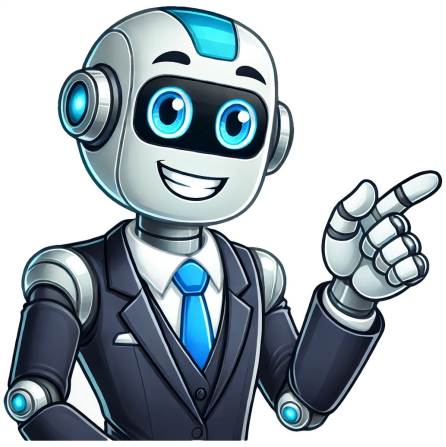


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Which expression converts 8 radians to degrees

To calculate the number of packets of noodles and boxes of fried rice, we need to solve the equation derived from the total cost. Let's start with Step 1: Let the number of boxes of fried rice be xxx. Then, the number of packets of noodles is x+4x+4x+4. Step 2: The total cost is 3.80(x+4)+(3.80+0.40)x=63.20 3.80(x+4)+(3.80+0.40)x=63.20 Now, simplify the equation to solve for xxx. Combine like terms and isolate xxx: 3.80x + 15.20 + 3.80x = 63.20 7.60x + 15.20 = 63.20 Subtract 15.20 from both sides: 7.60x = 48 Divide by 7.60: x = 6.316 (round to two decimal places, since you can't have a fraction of a box) So, the number of boxes of fried rice is approximately 6. Now that we know xxx, we can calculate the total number of packets of noodles and boxes of fried rice. Total packets of noodles: x+4x+4 = 6+4(6)+4 = 30 Total boxes of fried rice: xxx = 6 There are two primary units used to measure an angle: radians and degrees. Understanding how to convert between these units is essential for proficiency in mathematics and problem-solving. When a circle's radius is revolved, it forms an angle that can be measured in either radians or degrees. Radians measure the ratio of an arc's length to its corresponding radius. One complete rotation yields 2π radians, equivalent to 360°. The radian unit is part of the SI system for measuring angles. Degrees, on the other hand, are divided into 360 parts, each called a degree, and can be measured using a protractor. The conversion between radians and degrees involves multiplying the number of radians by a factor: 180°/π. This formula helps bridge the gap between these two measurement systems, ensuring that angles can be understood and compared in different contexts. To convert an angle from radians to degrees, use the formula: Angle in Radians × 180°/π = Angle in Degrees. Simply multiply the given angle in radians by 180°/π to get the equivalent angle in degrees. For example, for π/6 radians, the conversion is: (π/6) × (180°/π) = 30°. This table lists common radian values and their corresponding degree measures: Radians to Degrees Chart Additionally, note that one complete revolution is equal to 2π radians, and 1° equals 0.017453 radians. To convert an angle from radians to degrees, multiply by 180°/π. For conversion between degrees and radians, use the formula: Angle in degrees × π/180° = Angle in radians Given text about angles in radians and degrees, specifically conversion formulas and examples. The formula to convert radians to degrees is Degrees = Radians × 180 / π. This formula can be used to convert both positive and negative values of radians. For example, using the given formula, 8π radians is converted as follows: Z° = (180/π) × 8π = 1440 Degrees Similarly, another example: X° = (180/π) × 6π = 1080° To convert any angle in radians to degrees, use the given formula: Degrees = Radians × 180 / π The units of measurement for the angle θ will be in meters, specifically meters, not radians. If we were to measure in degrees, then s would have units of degree-meters instead. A degree is a unit of measurement equal to 1/360th of a revolution or circle. It's an accepted SI unit for angles within the metric system and can also be referred to as a degree of arc, arc degree, or arcdegree. Degrees are often abbreviated with ° or deg, such as 1° or 1 deg. Degrees can also be expressed using arcminutes and arcseconds as an alternative. One arcminute is equal to 1/60th of a degree, while one arcsecond is equivalent to 1/60th of an arcminute. Protractors are commonly used for measuring angles in degrees.