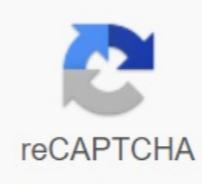


Rads into degrees



I'm not a robot



reCAPTCHA

Continue

EXAMPLE 4 Converting from Radians to Degrees

Convert each angle in radians to degrees.

a. $\frac{\pi}{3}$ radians b. $-\frac{3\pi}{4}$ radians c. 1 radian

Solution

a. $\frac{\pi}{3}$ radians $= \frac{\pi}{3} \times \frac{180^\circ}{\pi} = \left(\frac{180}{3}\right)^\circ = 60^\circ$

b. $-\frac{3\pi}{4}$ radians $= -\frac{3\pi}{4} \times \frac{180^\circ}{\pi} = \left(-\frac{3}{4}\right)180^\circ = -135^\circ$

c. 1 radian $= 1 \times \frac{180^\circ}{\pi} \approx 57.3^\circ$

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EME4363 Electrical Machines- Introduction to Machinery Principles

Electrical Machines

Motor **Generator**

Electrical energy \rightarrow Mechanical energy Mechanical energy \rightarrow Electrical energy

We will study the following machines:

- Induction motor
- Synchronous generator and motor
- DC motor

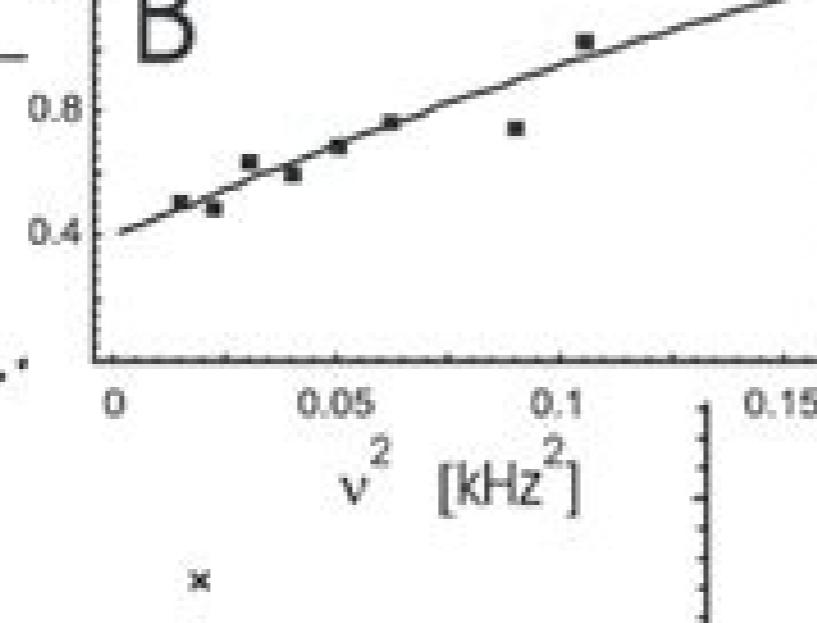
We will also look into **transformers** – useful in electrical power distribution.

BUT....

Firstly, we need to look at the **basic concepts** of electrical machines:

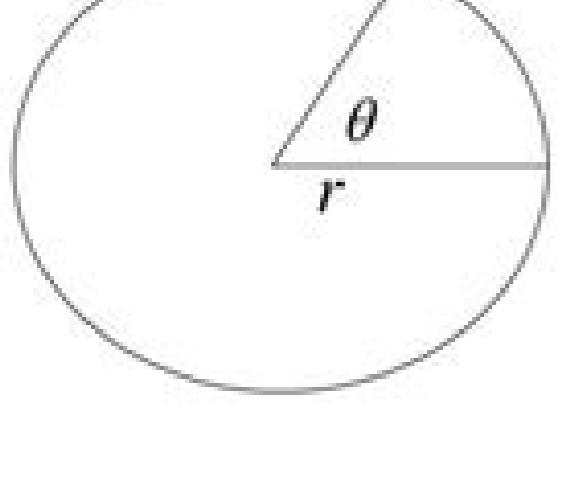
- Rotational motion and Newton's Law
- Magnetic field and magnetic circuits
- Principles behind motor, generator and transformer action
- The Linear DC machine

A



$r = 9, \theta = 215^\circ$

Changing to rads



$$215^\circ \cdot \frac{\pi}{180} = \frac{43\pi}{36}$$

Are length S

$$S = \frac{43\pi}{36} \cdot 9$$

$$S = \frac{43\pi}{4} = 33.772$$

Rads to degrees calculator. How to convert rads into degrees. How to go from rads to degrees.

Converting Radians to Degrees Use the Radian to Degrees Converter above to find the exact degree value of any angle recorded in radians or radian PI. The calculator generates step explanations using . Radani and caglia degree from 0 rad to 21 rad rad deg 0 rad = 0 ° i/360 rad = 0.5 ° i/180 rad = 1 ° i/120 rad = 1.5 ° i/90 rad = 2 ° ° ° / 72 rad = 2.5 ° i/60 rad = 3 ° 7 ° /360 rad = 3.5 ° i/45 rad = 4 ° i/40 rad = 4.5 ° i/36 rad = 5 ° 11 ° /360 rad = 5.5 ° 30 rad = 6.13 ° /360 rad = 6.57 ° /180 rad = 7 ° 24 rad = 7.52 ° /45 rad = 8 ° 17 ° /360 rad = 360.85 ° /20 rad = 9 ° 19 ° /360 rad = 9.5 ° ° /18 rad = 10 ° 7 ° /120 rad = 10.5 ° 11 ° /180 rad = 11 ° 23 ° /360 rad = 11.5 ° i/15 rad = 12 ° 5 ° /72 rad = 12.5

