

If more than two gears are used in a system, it is called a gear train.

## Gear Terminology

**Pitch** refers to the distance between any on one tooth to the same point on the next tooth.

The **pitch circle** is the circle with radius up to around half the teeth's height, where they contact one another.

**Pitch point** is the teeth contact point.

**Root** is the bottom part of the wheel.



## Velocity Ratio

When two gears mesh their teeth and profile must be the same.



$$GVR = \frac{\omega_{\text{out}}}{\omega_{\text{in}}} = \frac{d_{\text{out}}}{d_{\text{in}}} = \frac{N_{\text{out}}}{N_{\text{in}}} = \frac{T_{\text{in}}}{T_{\text{out}}}$$

GVR = gear ratio

$\omega_{\text{in}}$  = angular velocity - driver

$\omega_{\text{out}}$  = angular velocity - driven

$N_{\text{in}}$  = number of teeth - driver

$N_{\text{out}}$  = number of teeth - driven

$d_{\text{in}}$  = diameter - driver

$d_{\text{out}}$  = diameter - driven

$T_{\text{in}}$  = torque - driver

$T_{\text{out}}$  = torque - driven

- This means that there is a relationship between the number of teeth and the diameter of the gears.

# Mechanical Gears Study Guide

**Charles J. Brooks**



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