

ME312 Homework

Given: The teeth on a pair of mating gears have a 6 diametral pitch, 20° pressure angle AGMA involute form. The pinion has 19 teeth, and the gear has 37 teeth.

Find the following parameters:

Characteristic	Pinion	Gear
Gear Ratio		
Circular Pitch		
Base Pitch		
Pitch Diameter		
Center Distance		
Addendum		
Dedendum		
Whole Depth		
Clearance		
Outside Diameter		
Contact Ratio		
Base Diameter		