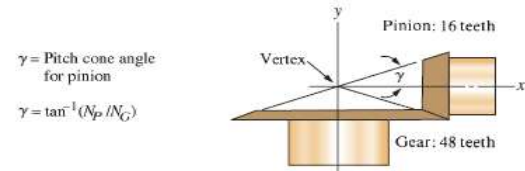
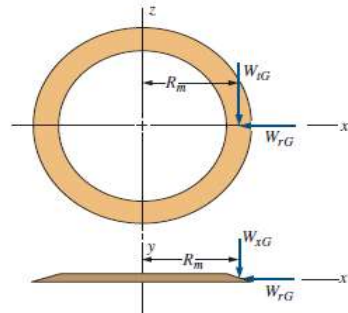
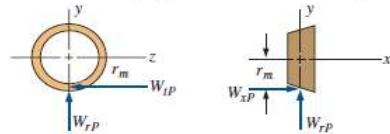


Gear #	No. Teeth	Power Transmitted (hp)	Rotational Speed (rpm)	Torque (lb-in)	Diametral Pitch	Pitch Diameter	Spiral Angle (degrees)	Pressure Angle (degrees)	Pinion Pitch Cone Angle (degrees)	Face Width (in)	Mean Radius Of Pinion	Tangential Force (lb)	Radial Force (lb)	Axial Force (lb)	Pitch Line Velocity (fpm)	Quality Number
3	18	24	900	1680	6.545	2.75	35	20	26.56505118	1	1.151393202	1459.101892	475.0031	237.5016	647.9535	A10
4	36	24	450	3360	6.545	5.5	35	20	n/a	1	n/a	1459.101892	237.5016	475.0031	647.9535	A10
6	18	16	1350	746.6666667	6.545	2.75	35	20	26.56505118	1	1.151393202	648.4897298	211.1125	105.5563	971.9302	A8
7	36	16	675	1493.333333	6.545	5.5	35	20	n/a	1	n/a	648.4897298	105.5563	211.1125	971.9302	A8



(a) Mating pinion and gear (only pitch cone surface shown)



Notes: Shaded area is pitch cone surface.
 Considering magnitudes:
 $W_{IP} = W_{IG}$
 $W_{XP} = W_{rG}$
 $W_{rP} = W_{xG}$