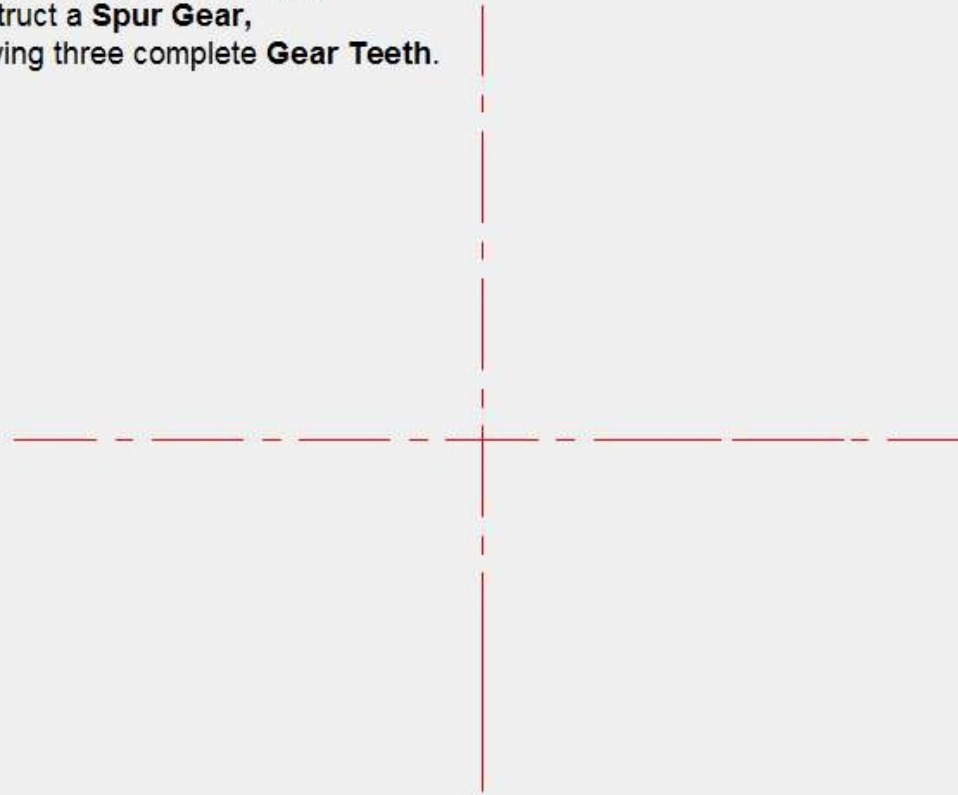
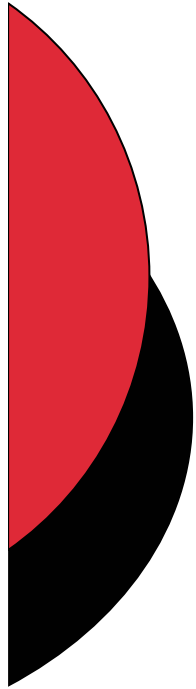


Involute Gear Construction

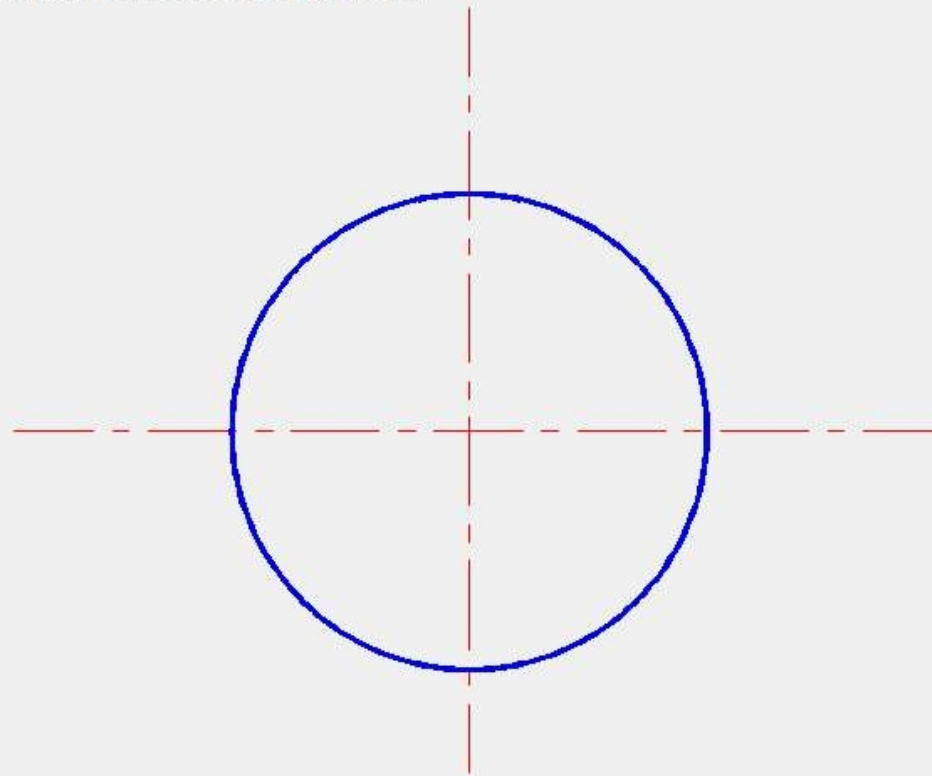
Using the given centre point,
construct a **Spur Gear**,
showing three complete **Gear Teeth**.

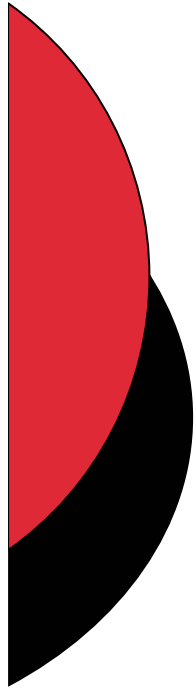




Involute Gear Construction

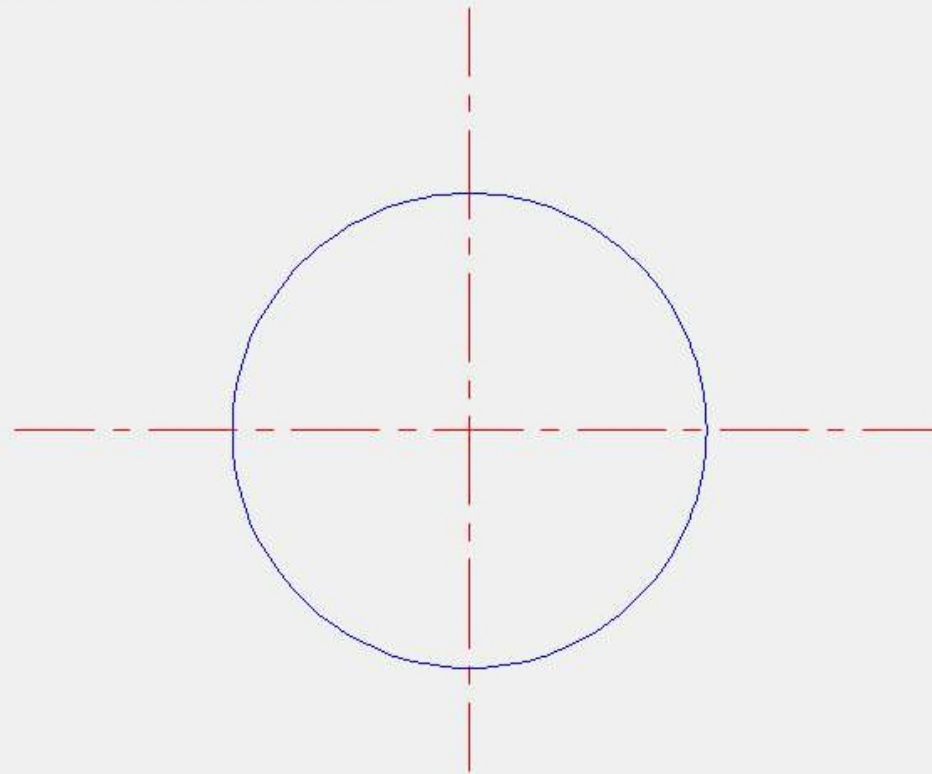
Using the formula Pitch Circle Diameter = module (m) x no.of teeth(t)
Construct the Pitch Circle Diameter.

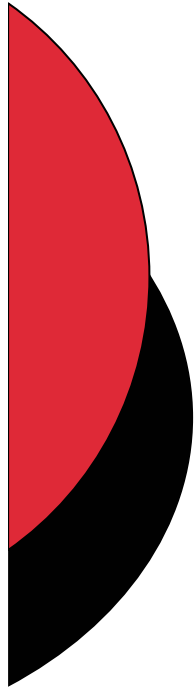




Involute Gear Construction

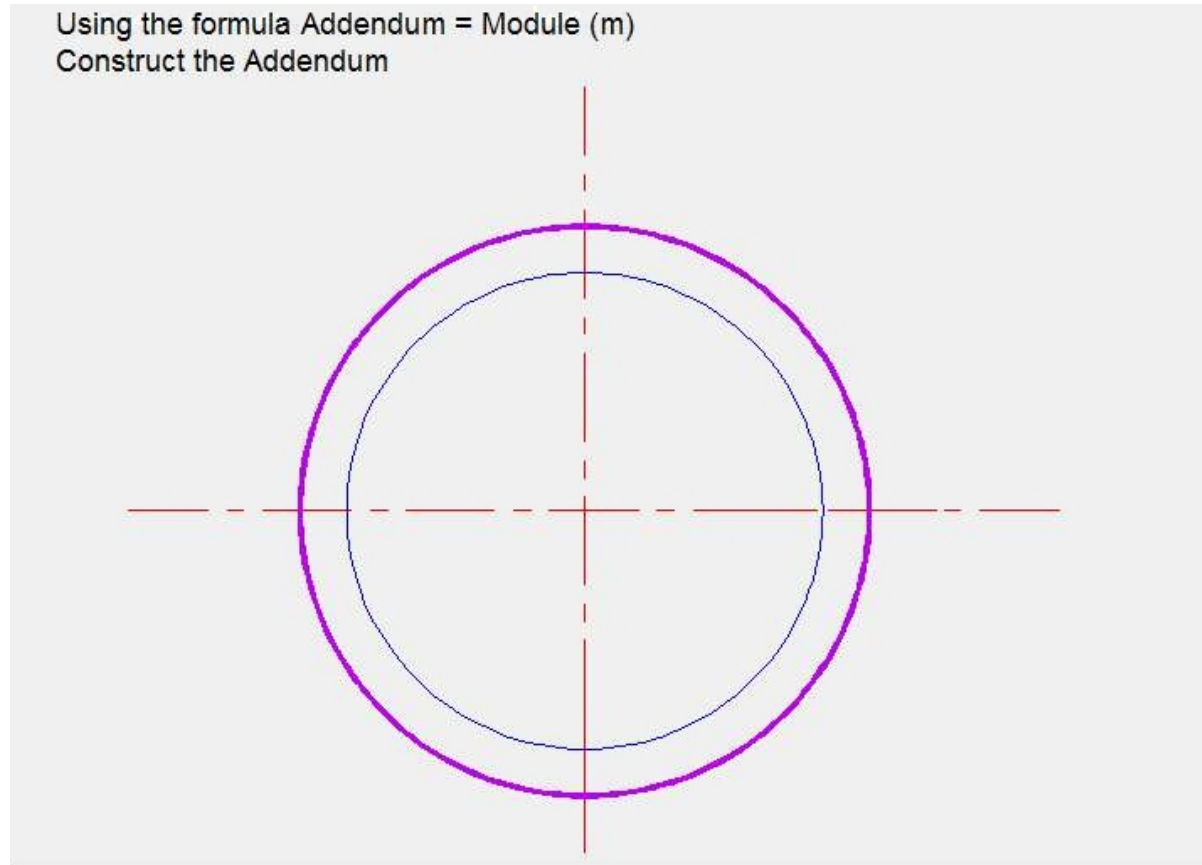
Using the formula Pitch Circle Diameter = module (m) x no.of teeth(t)
Construct the Pitch Circle Diameter.

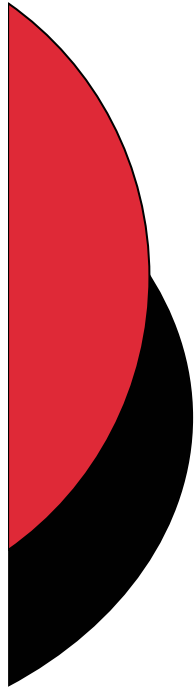




Involute Gear Construction

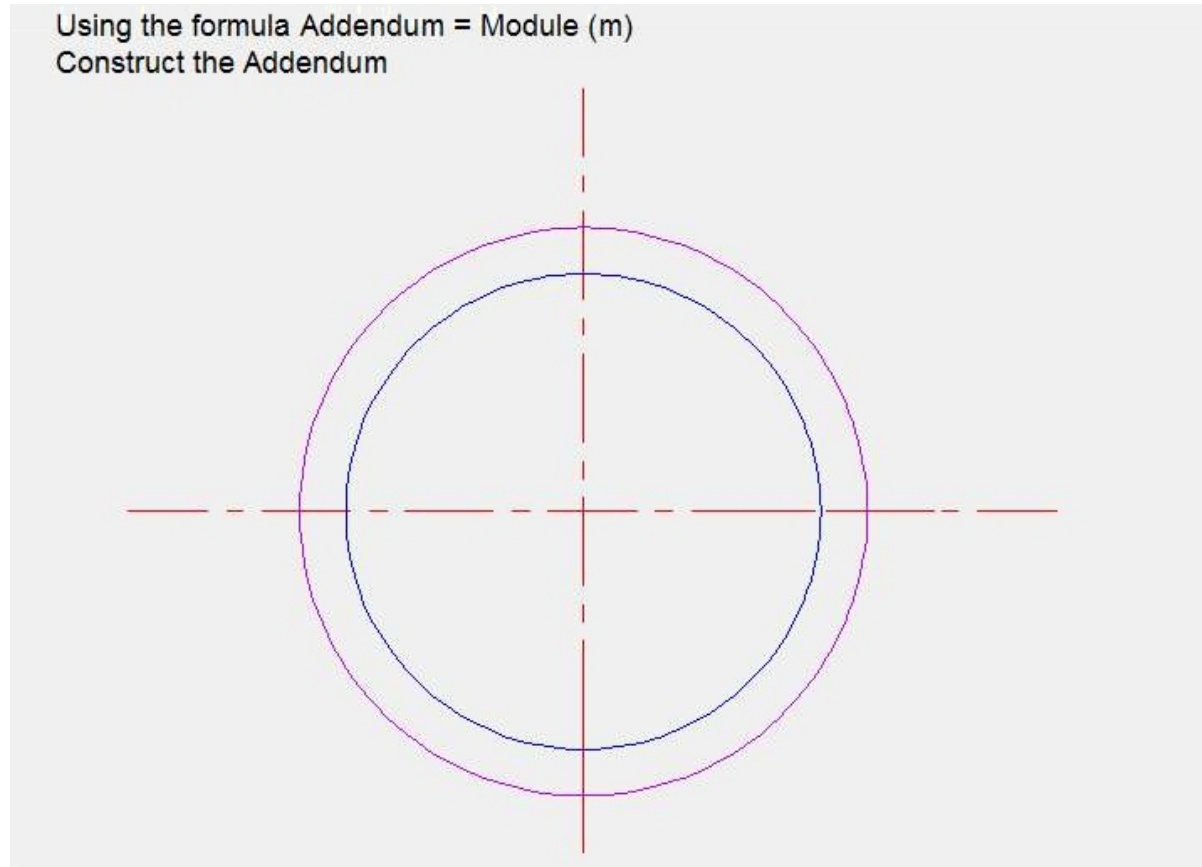
Using the formula Addendum = Module (m)
Construct the Addendum

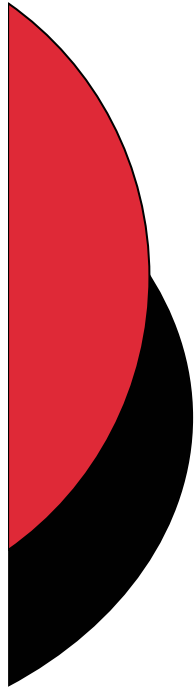




Involute Gear Construction

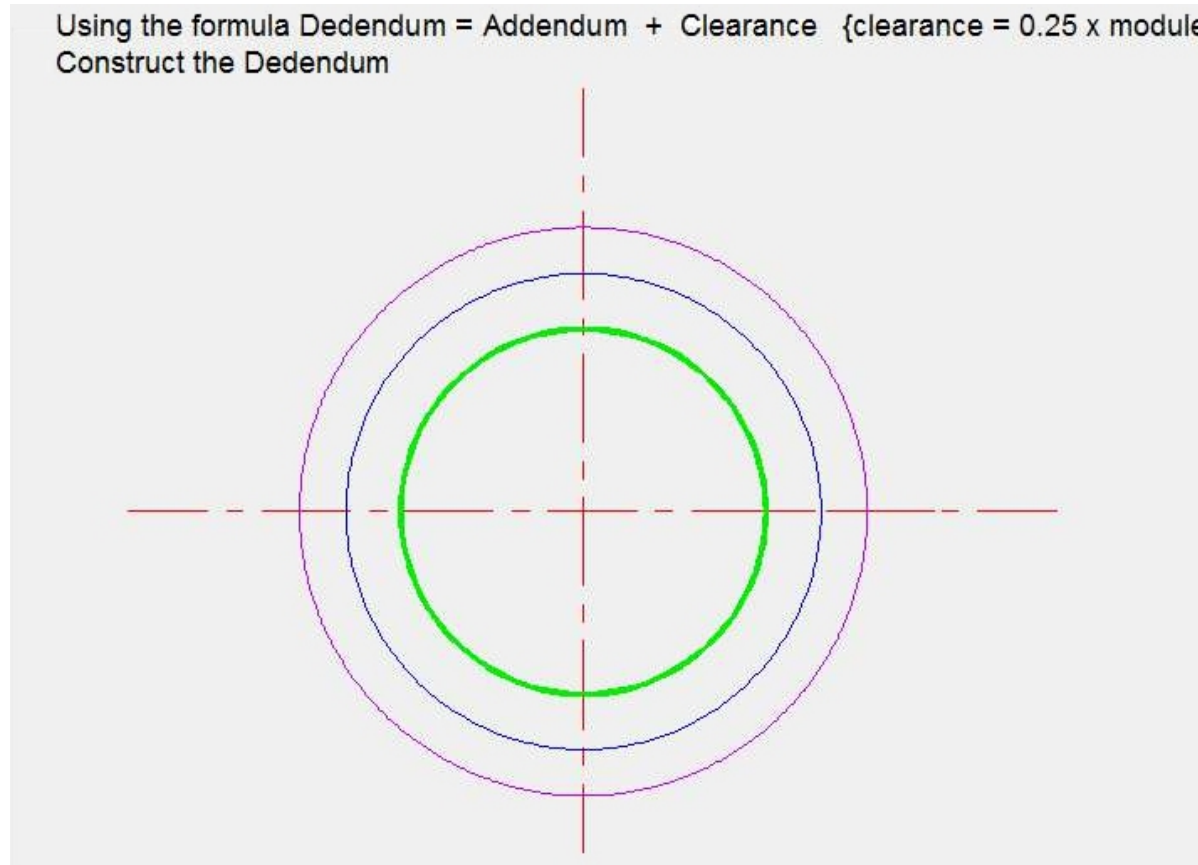
Using the formula Addendum = Module (m)
Construct the Addendum

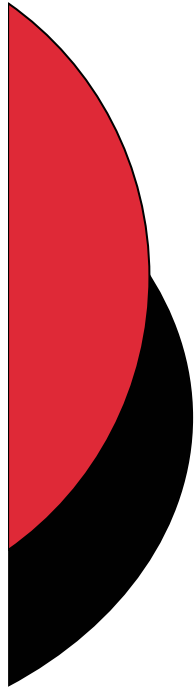




Involute Gear Construction

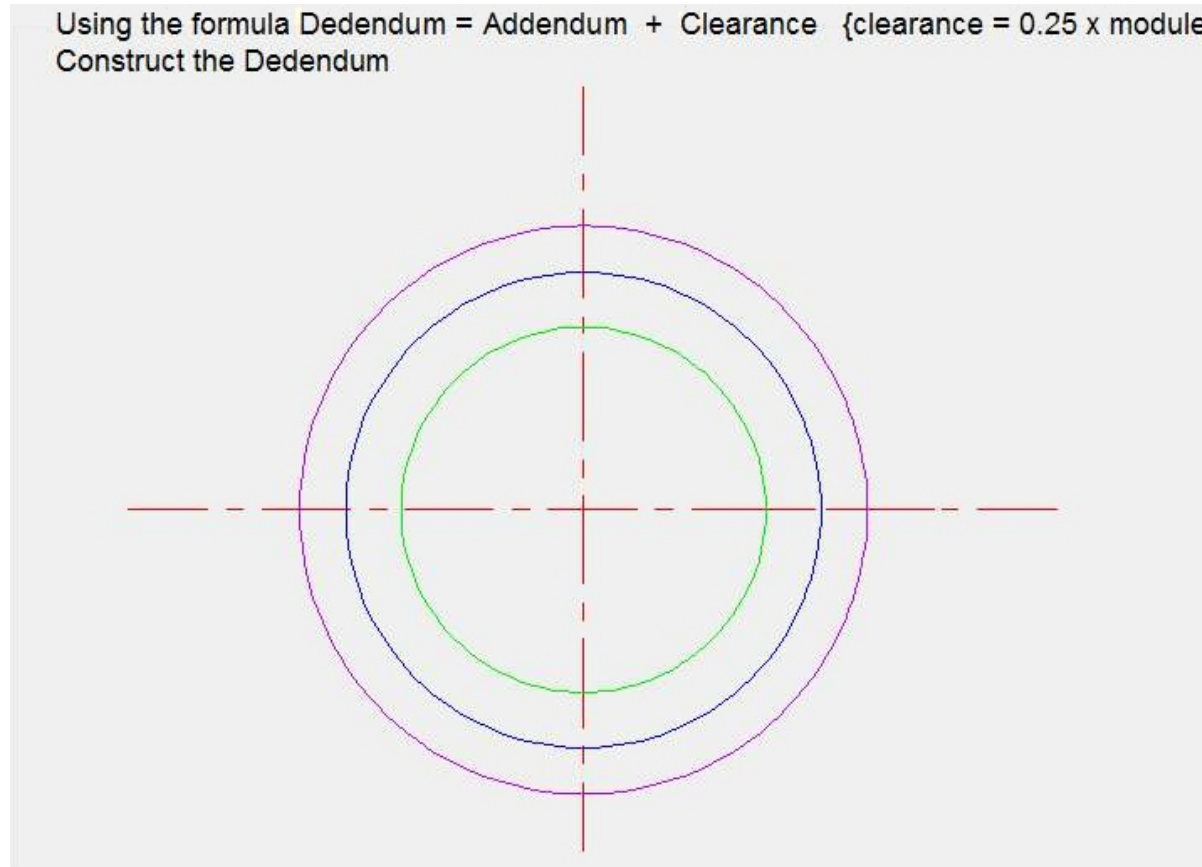
Using the formula Dedendum = Addendum + Clearance {clearance = 0.25 x module}
Construct the Dedendum

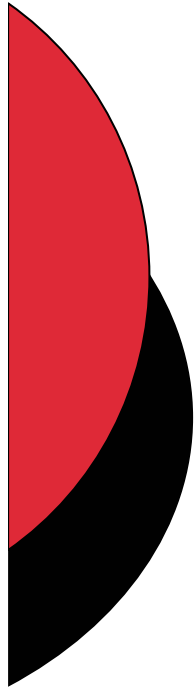




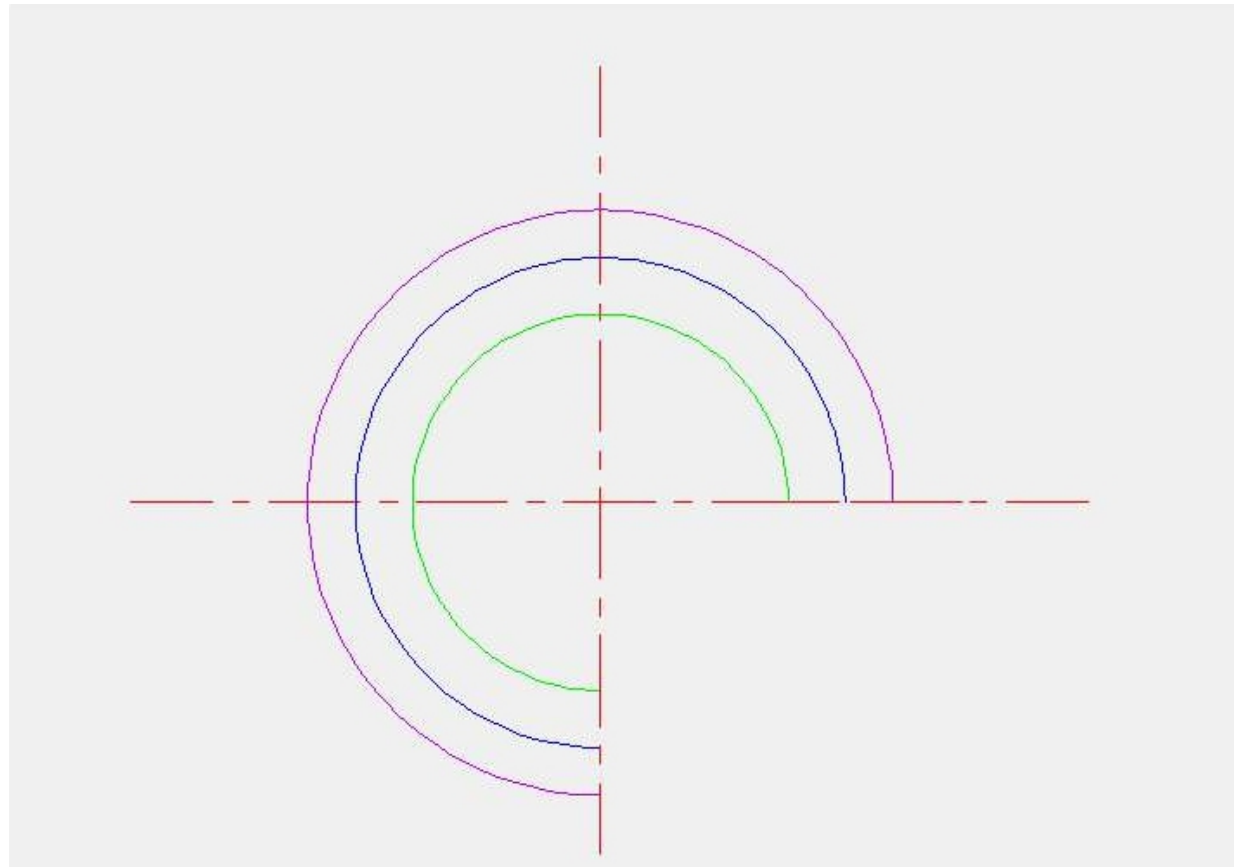
Involute Gear Construction

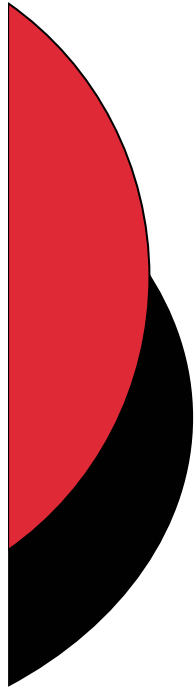
Using the formula Dedendum = Addendum + Clearance {clearance = 0.25 x module}
Construct the Dedendum



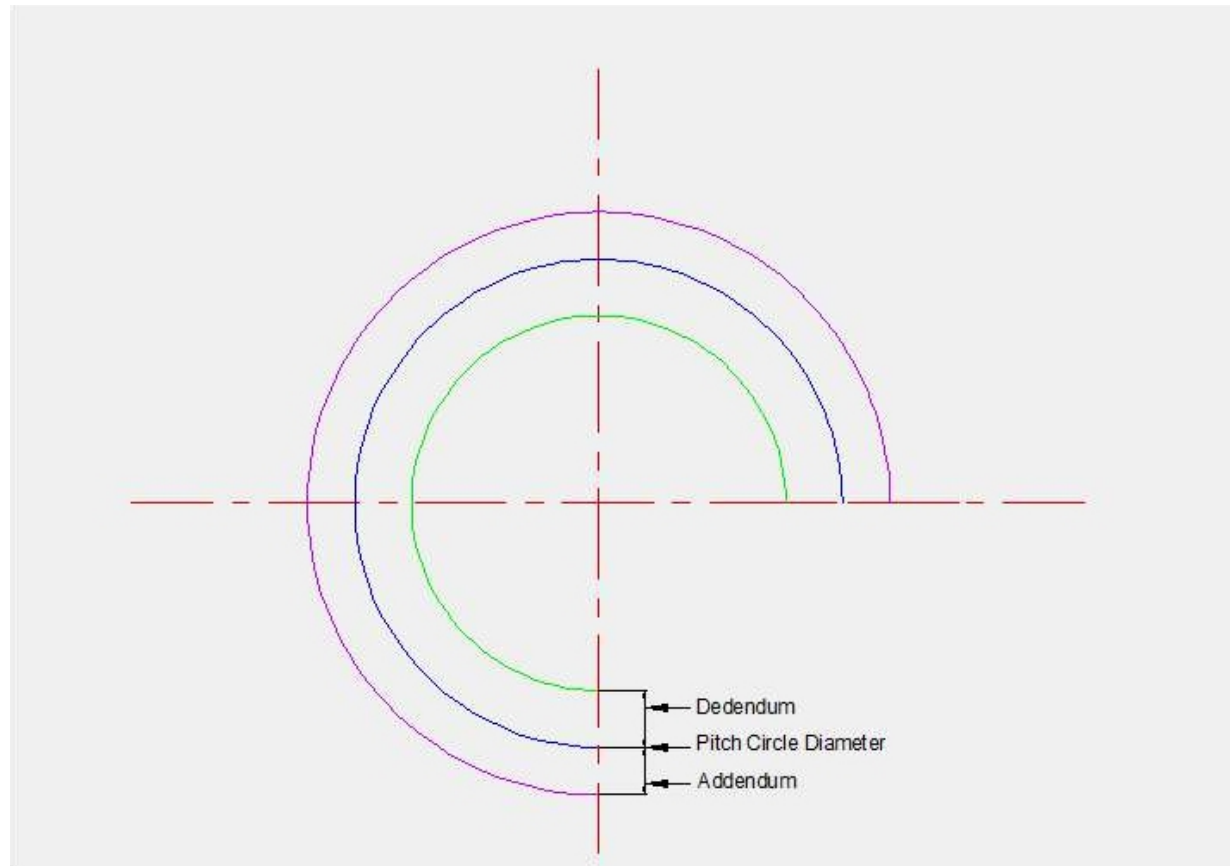


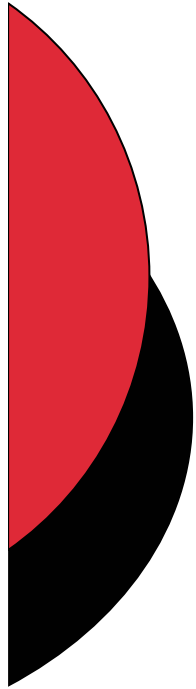
Involute Gear Construction



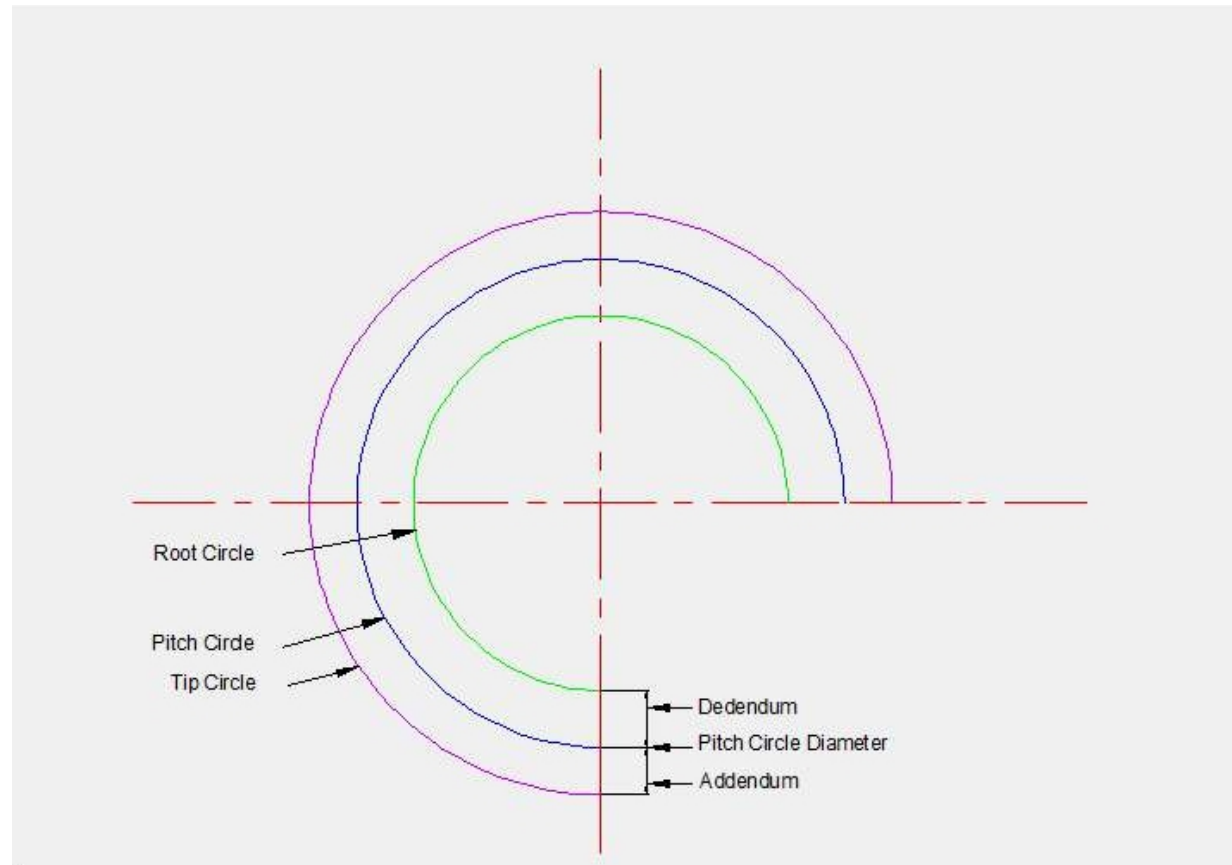


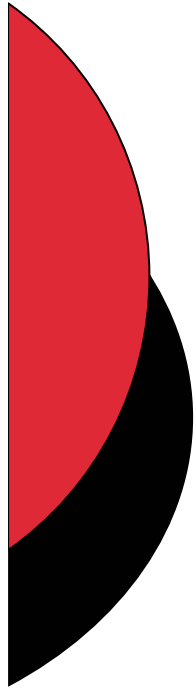
Involute Gear Construction



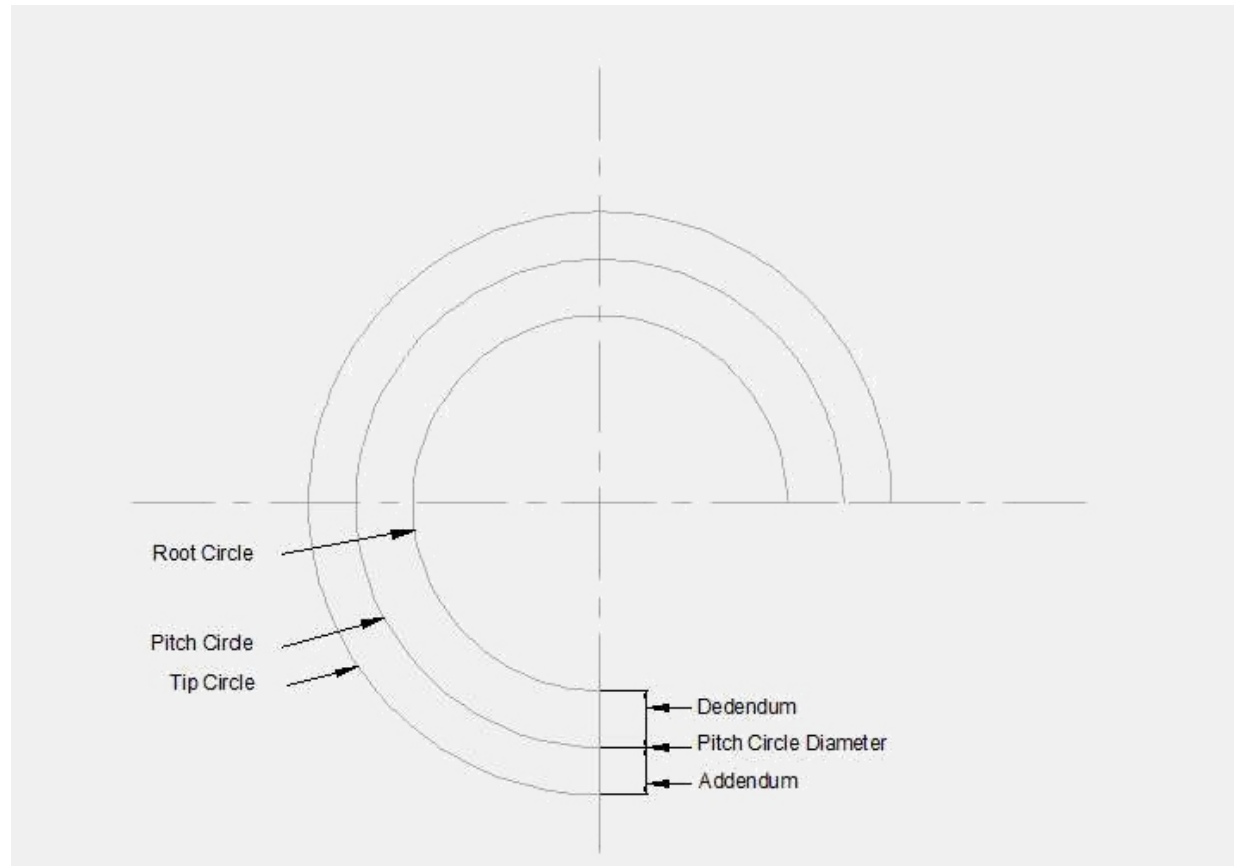


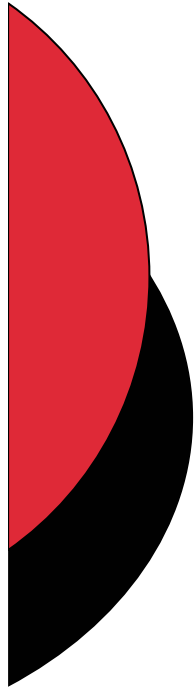
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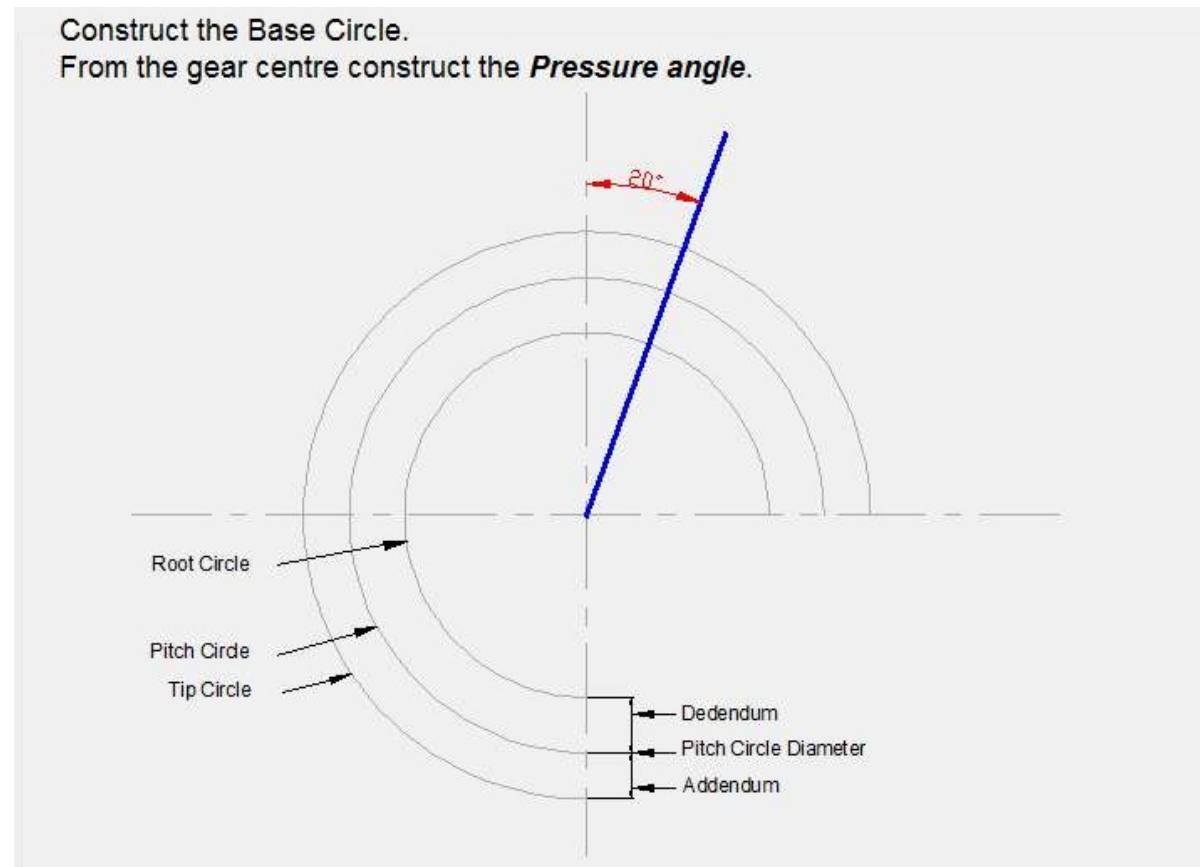


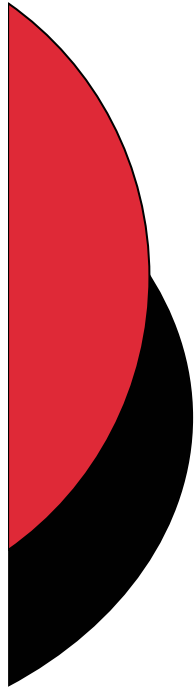
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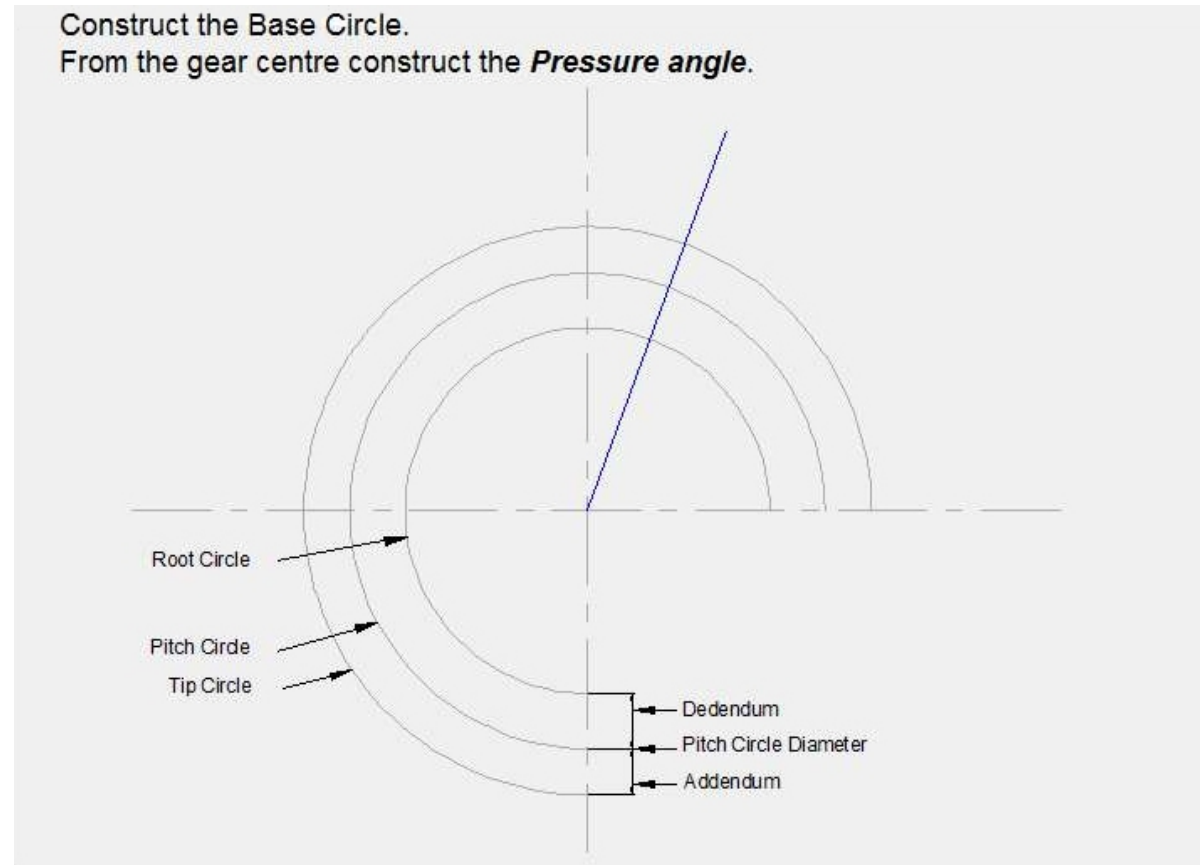


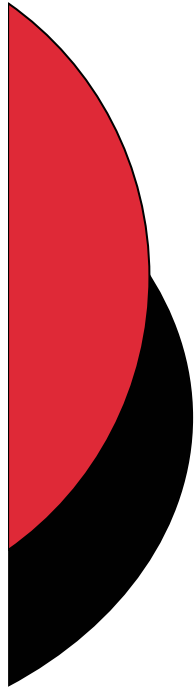
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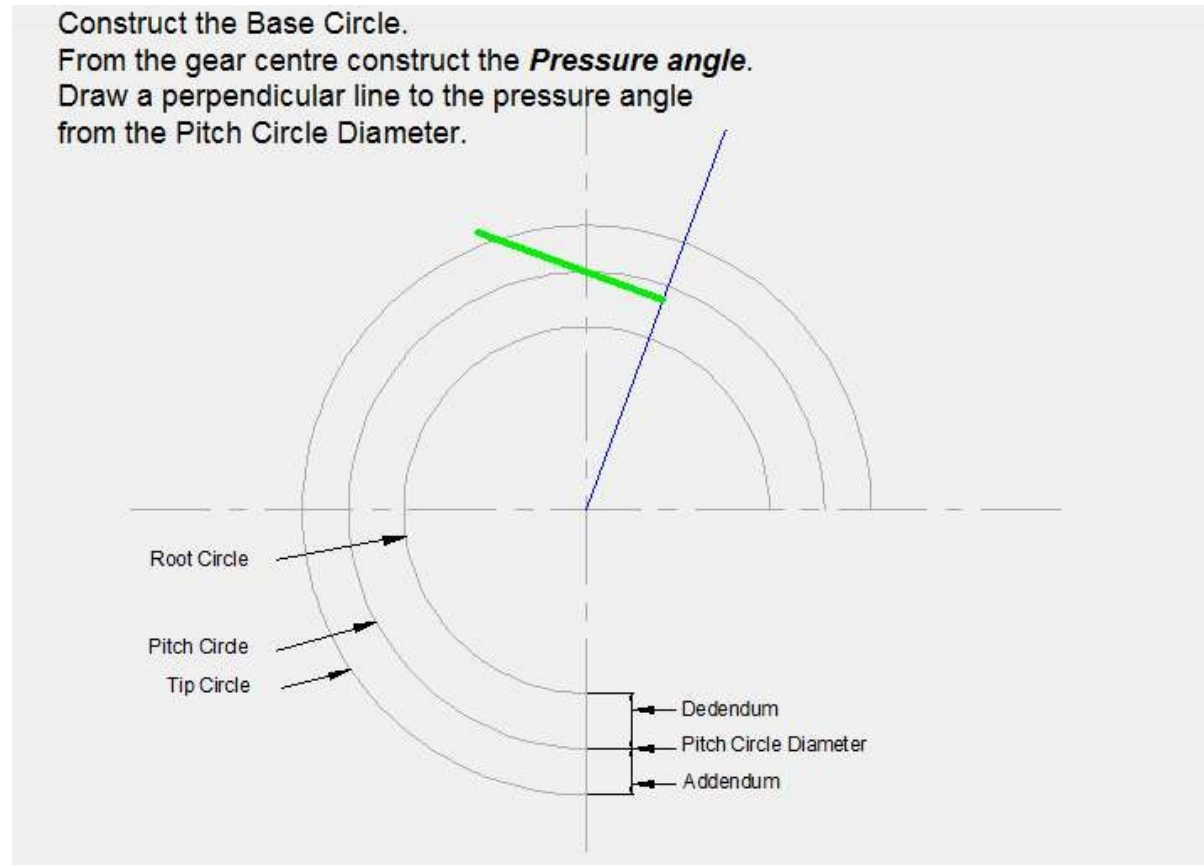


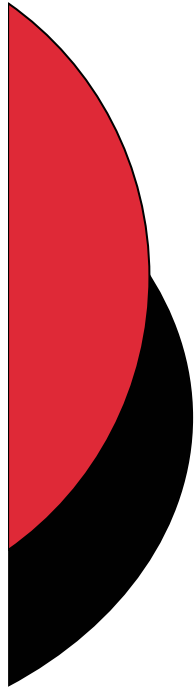
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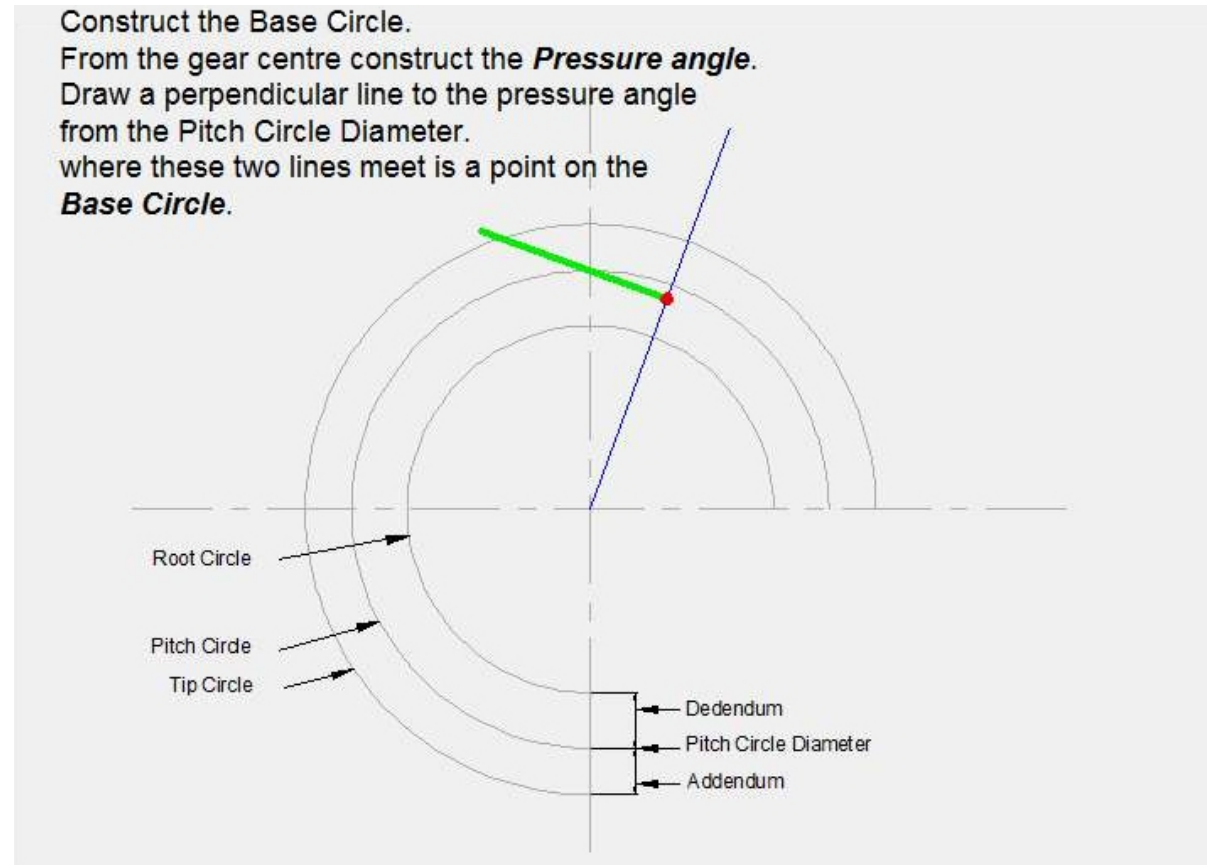


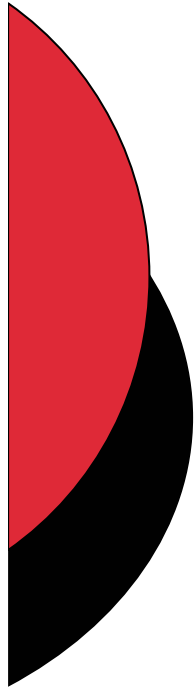
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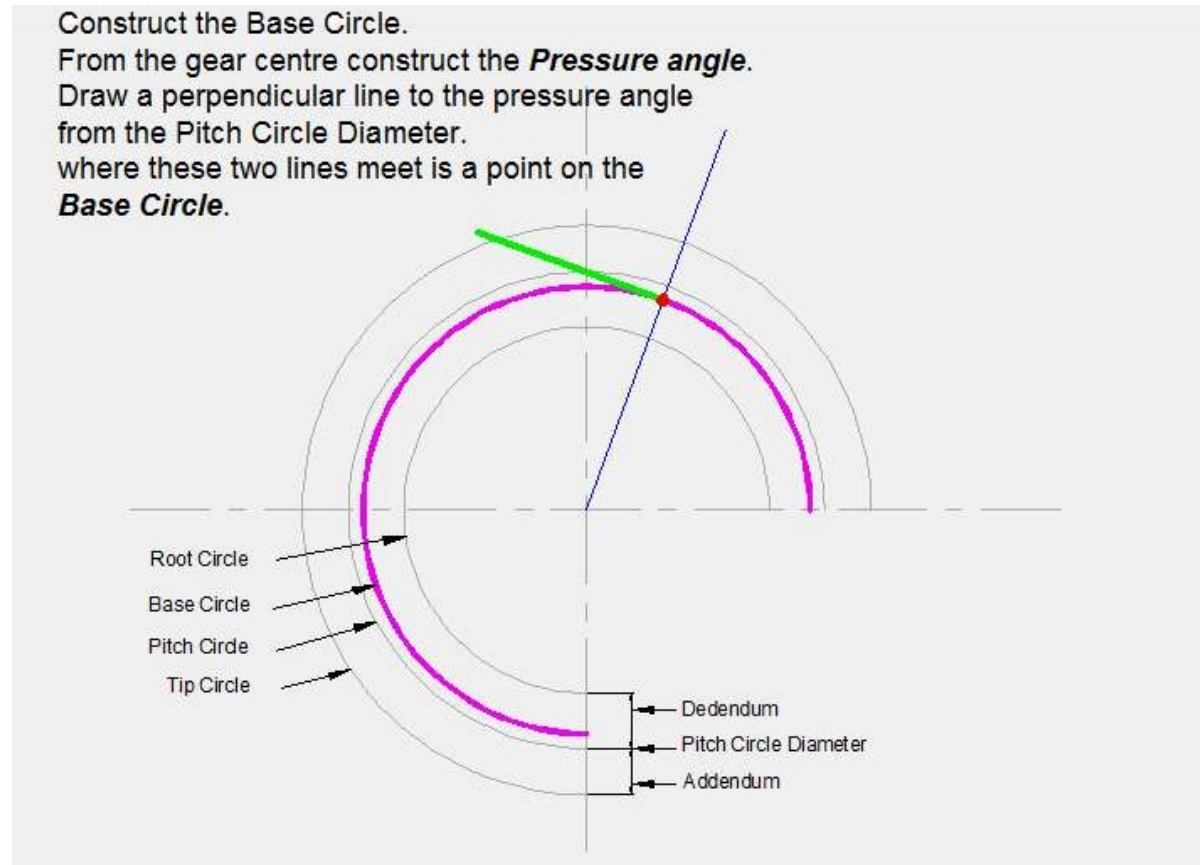


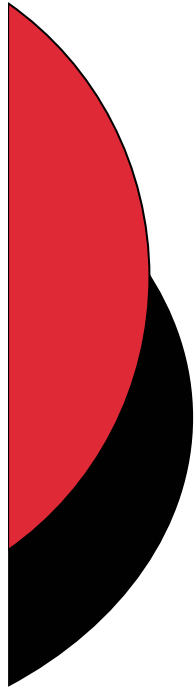
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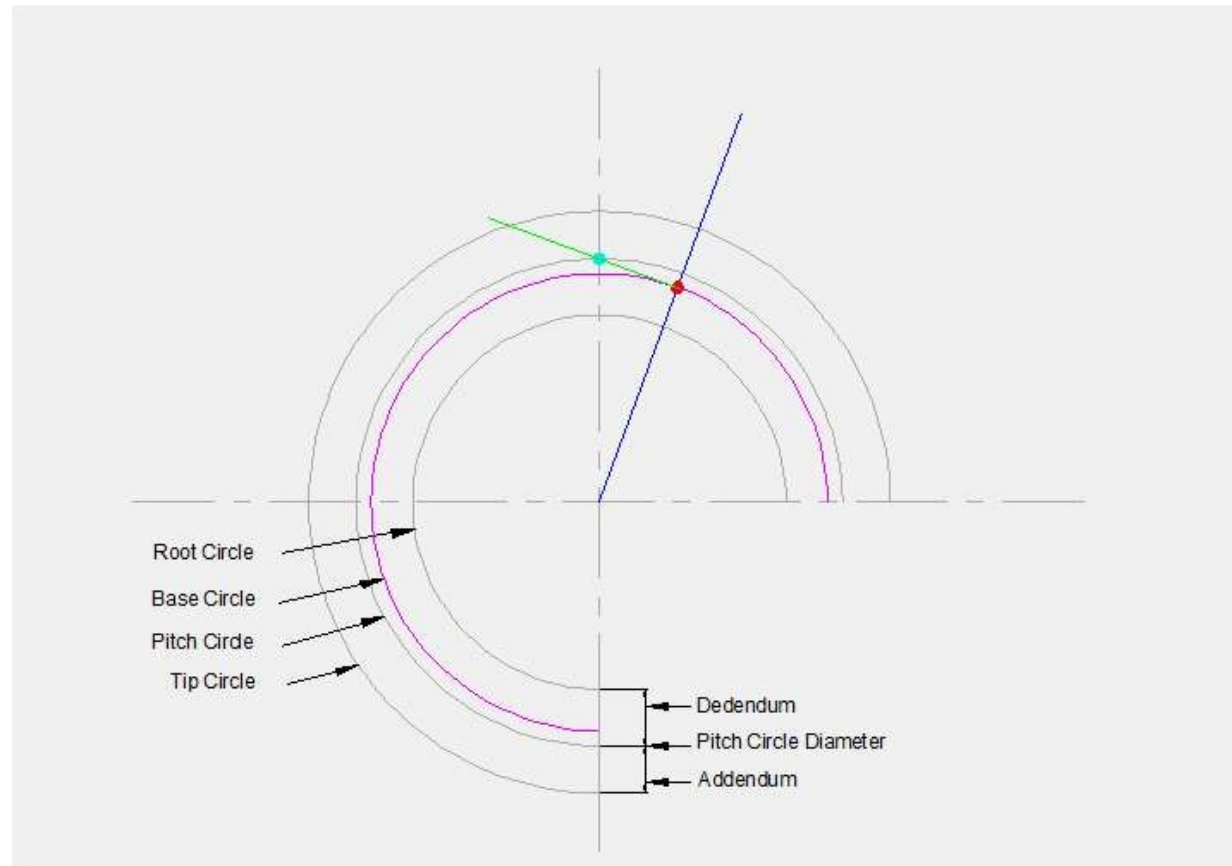


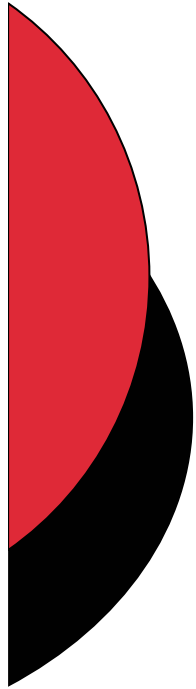
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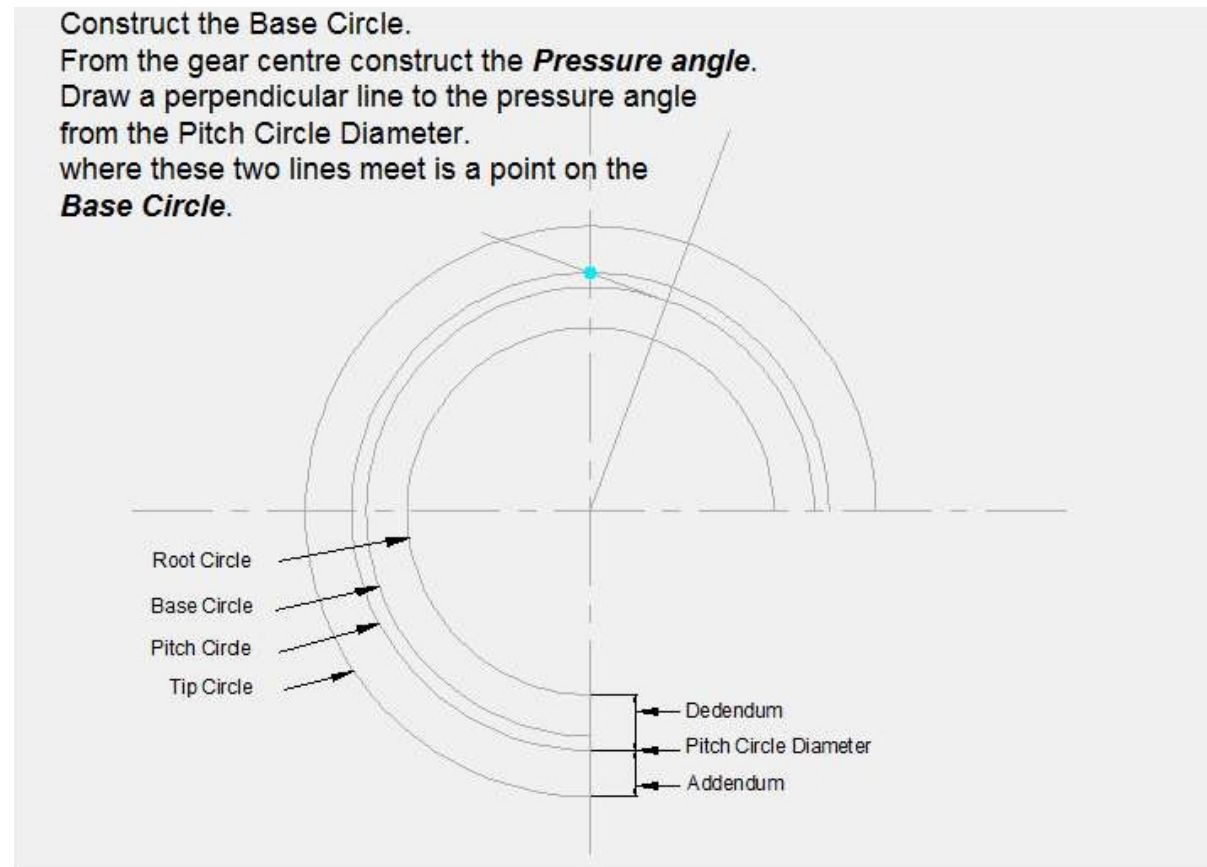


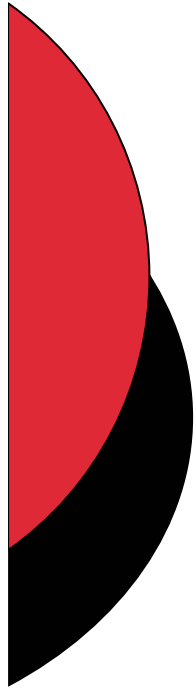
Involute Gear Construction





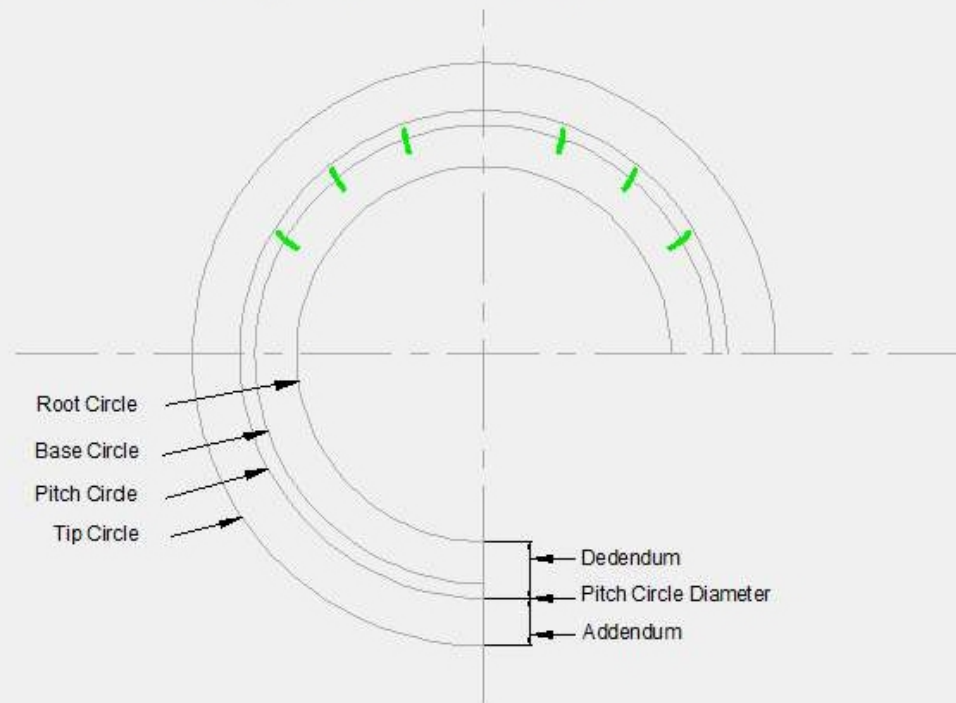
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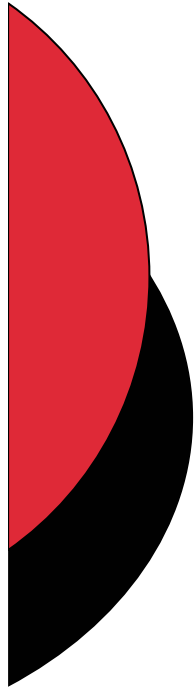




Involute Gear Construction

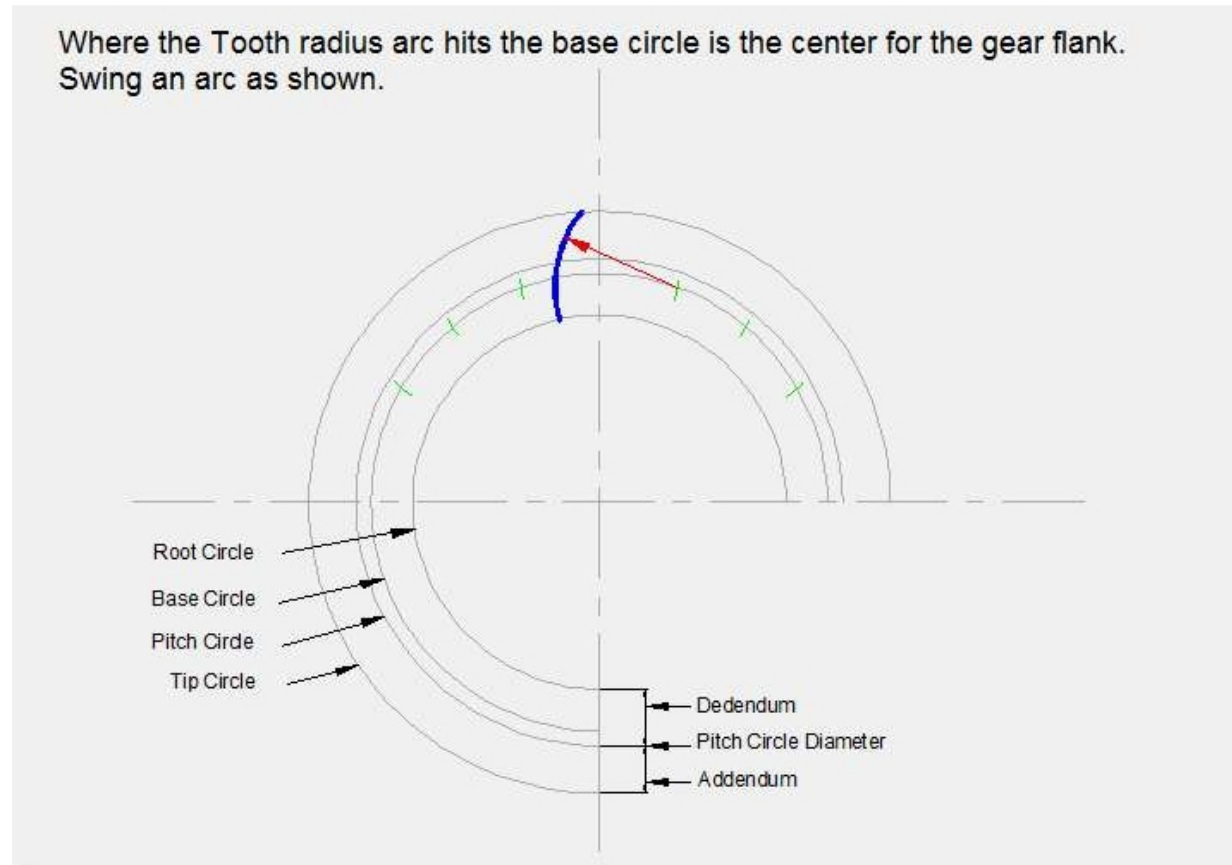
There are 24 teeth in this gear.
Thus the gear tooth radius = Pitch Circle Diameter / 8
Mark this distance along the Base Circle as shown.

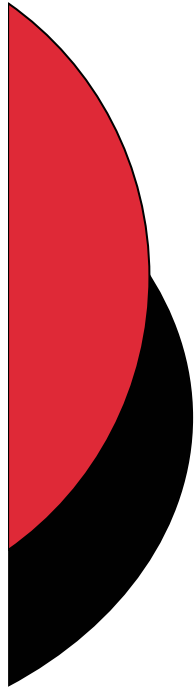




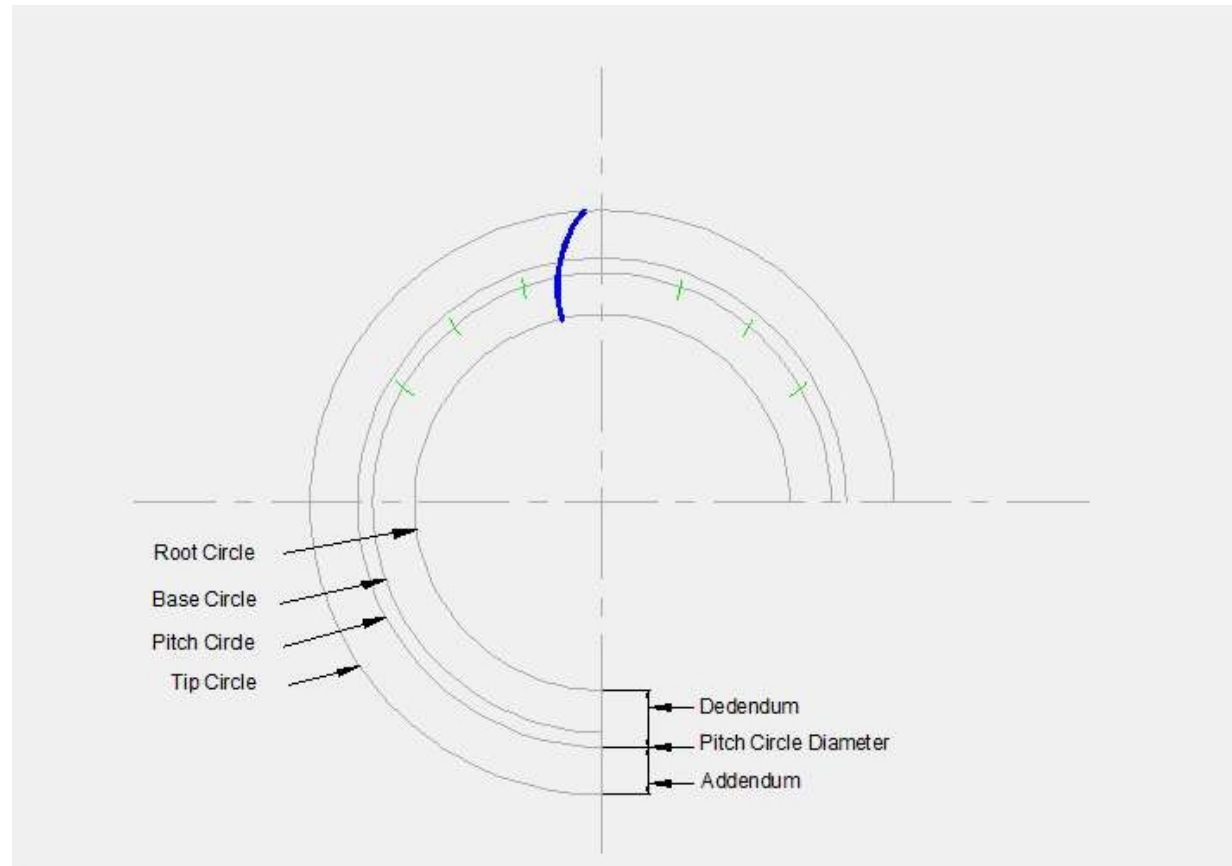
Involute Gear Construction

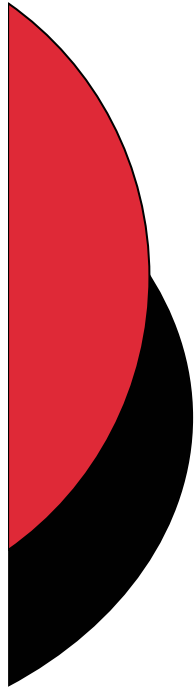
Where the Tooth radius arc hits the base circle is the center for the gear flank.
Swing an arc as shown.



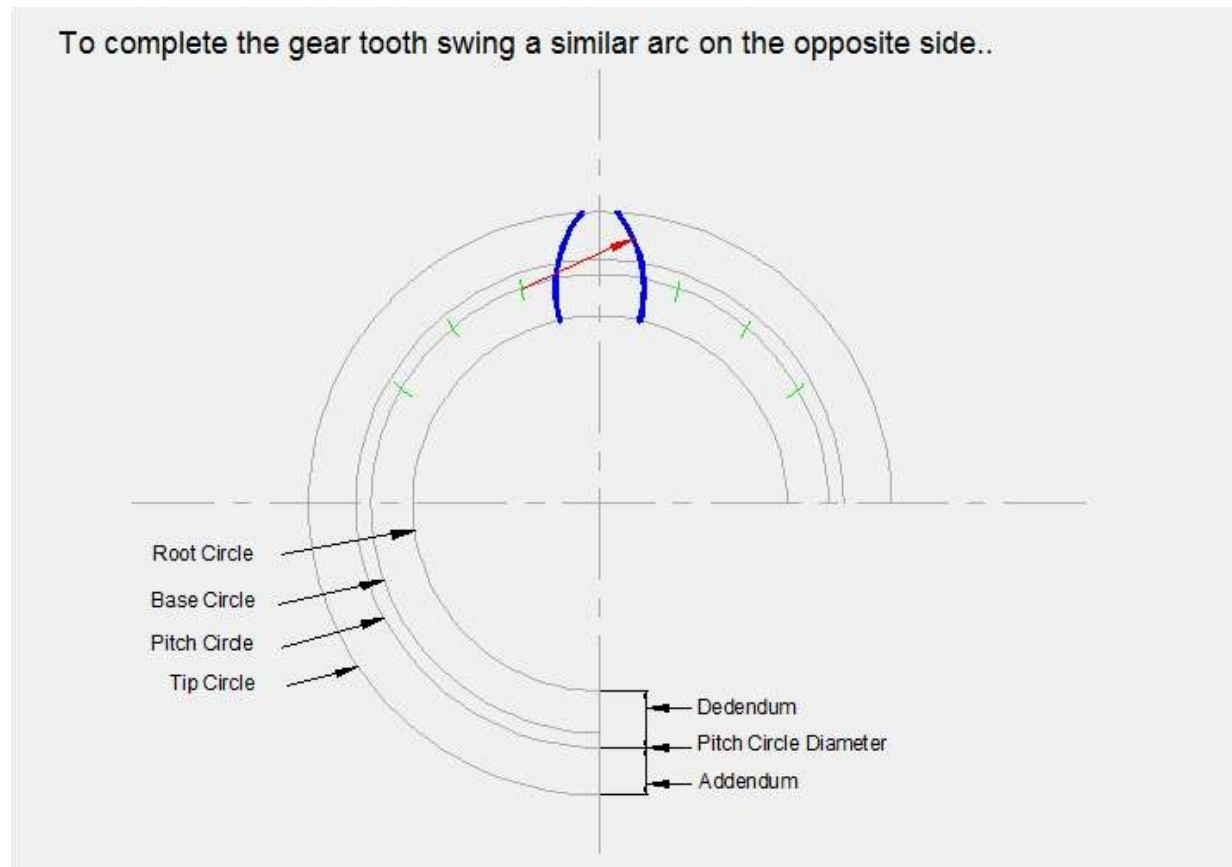


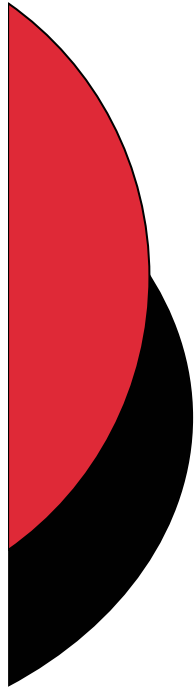
Involute Gear Construction



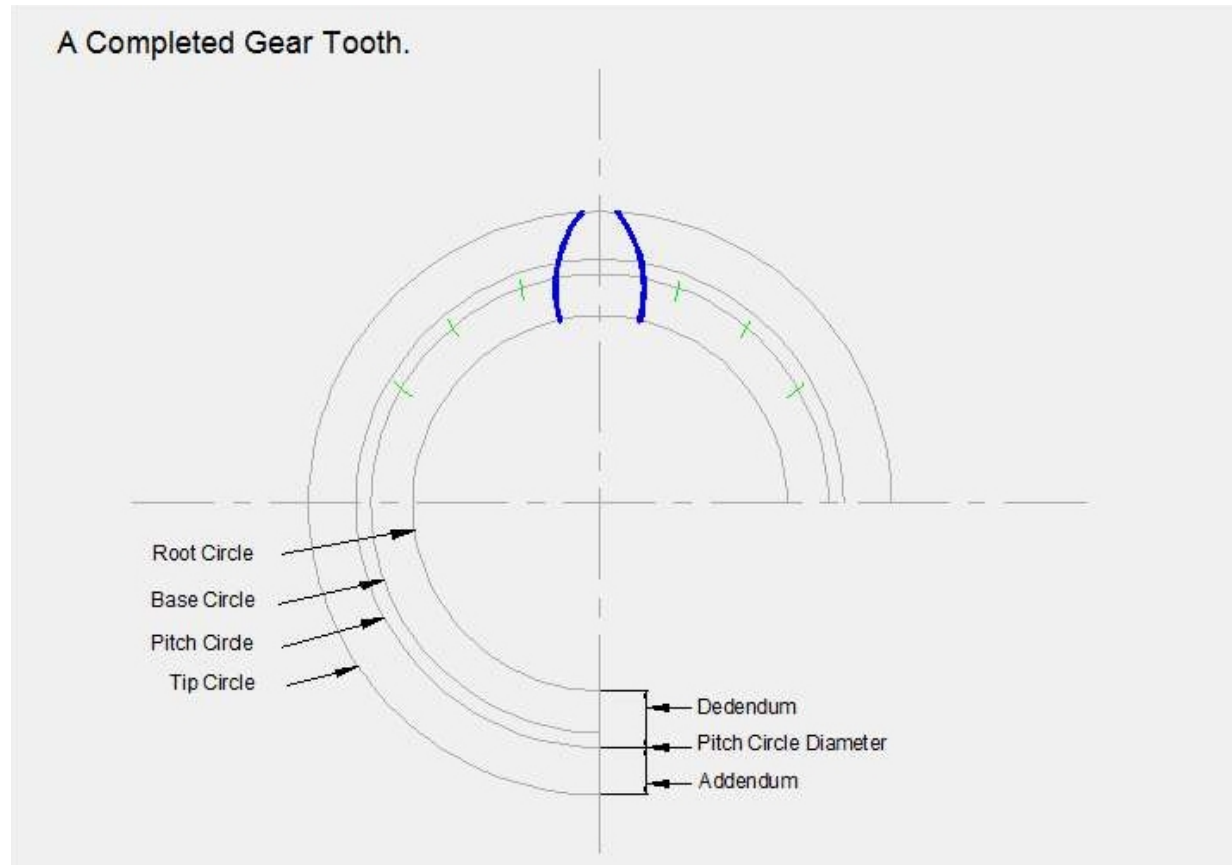


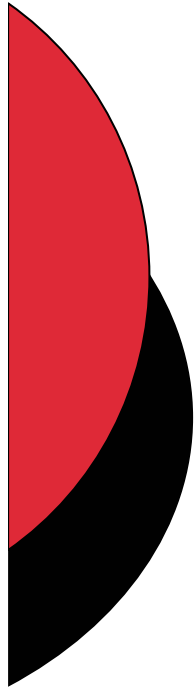
Involute Gear Construction





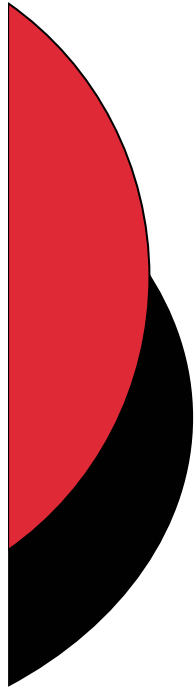
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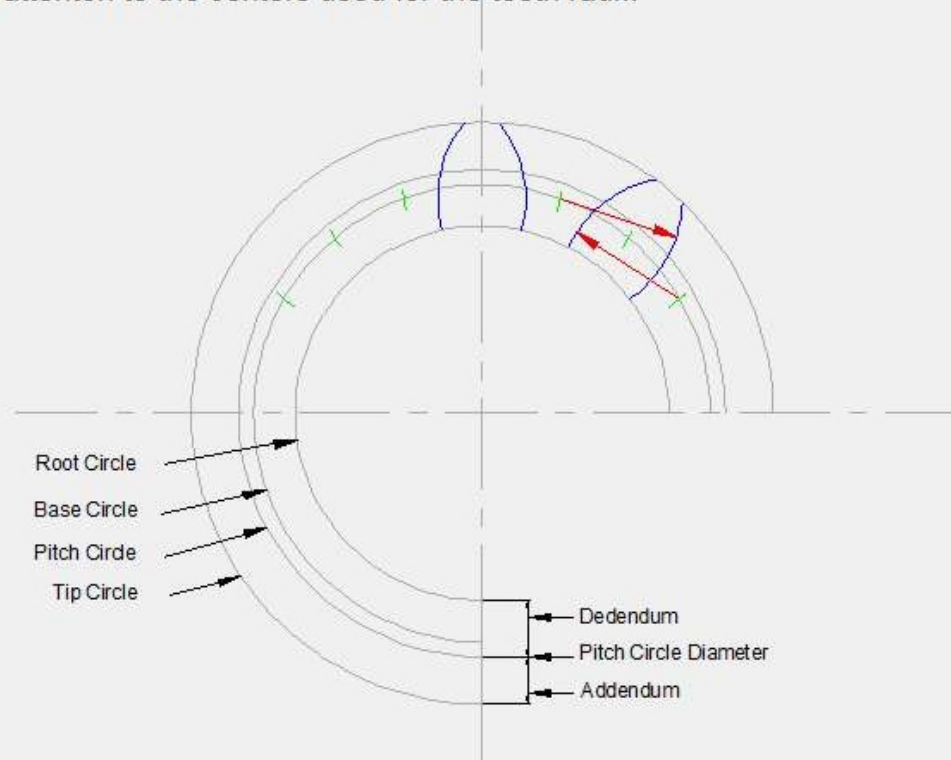
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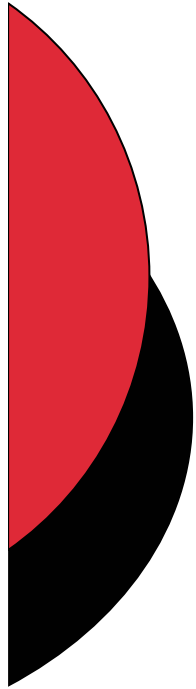




Involute Gear Construction

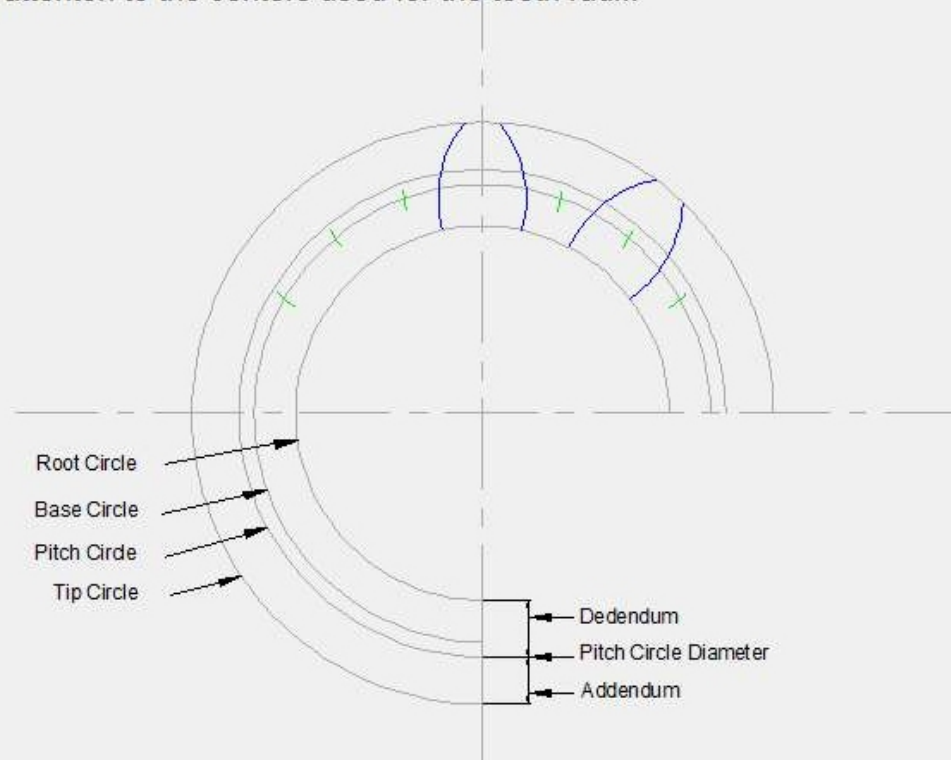
Repeat this procedure for the remaining teeth.
Pay attention to the centers used for the teeth radii!!

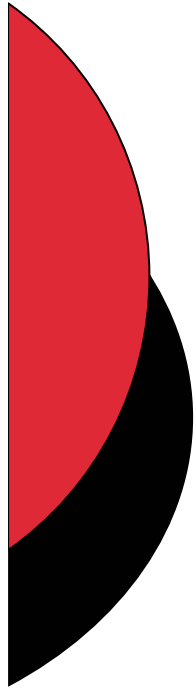




Involute Gear Construction

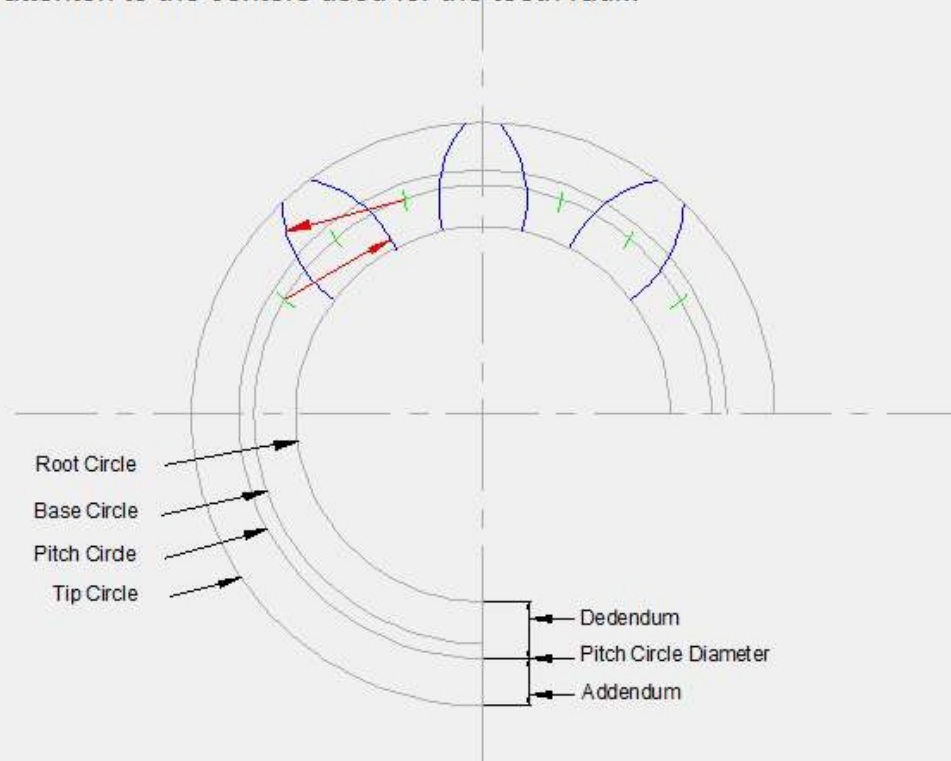
Repeat this procedure for the remaining teeth.
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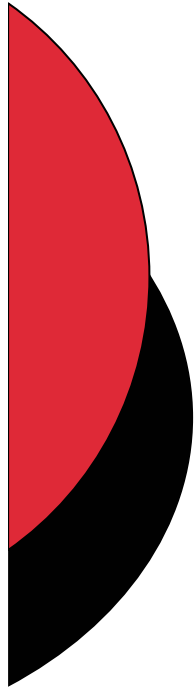




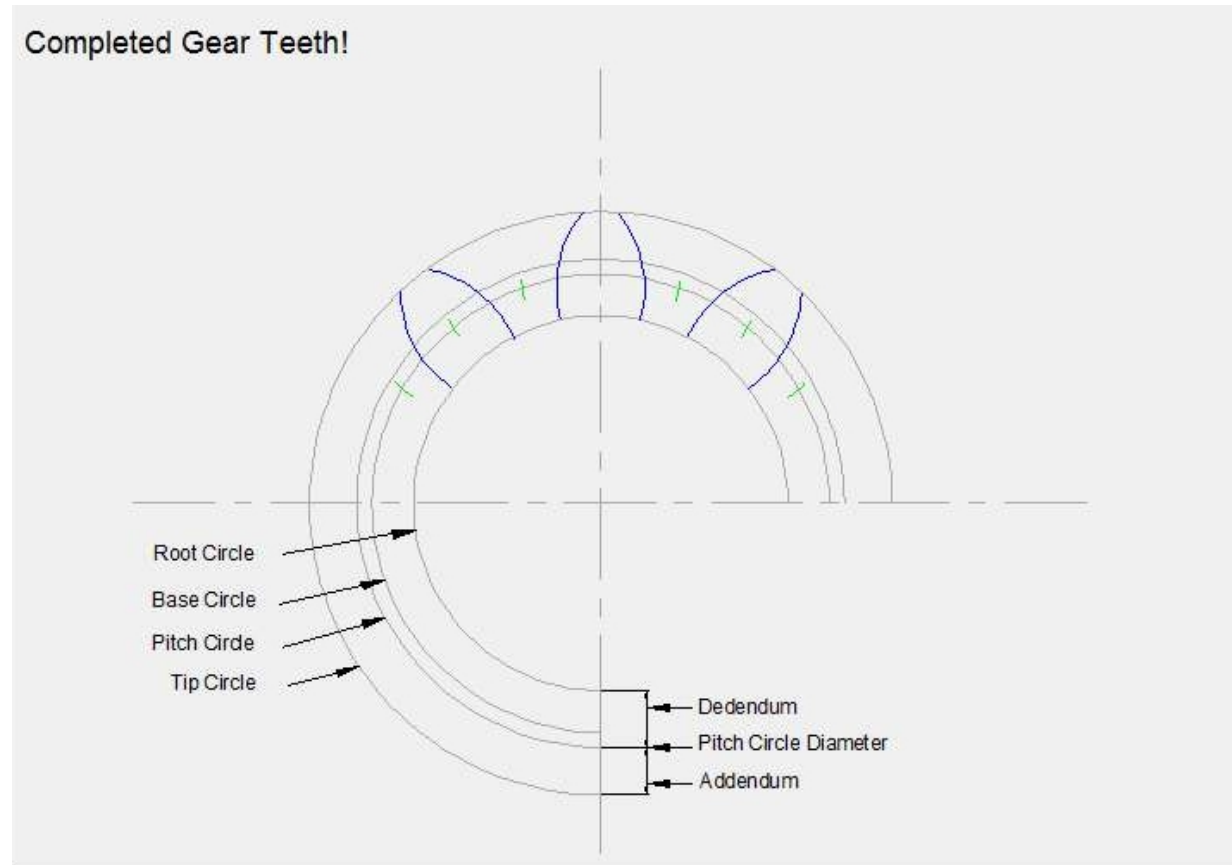
Involute Gear Construction

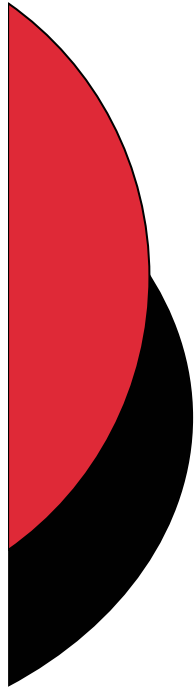
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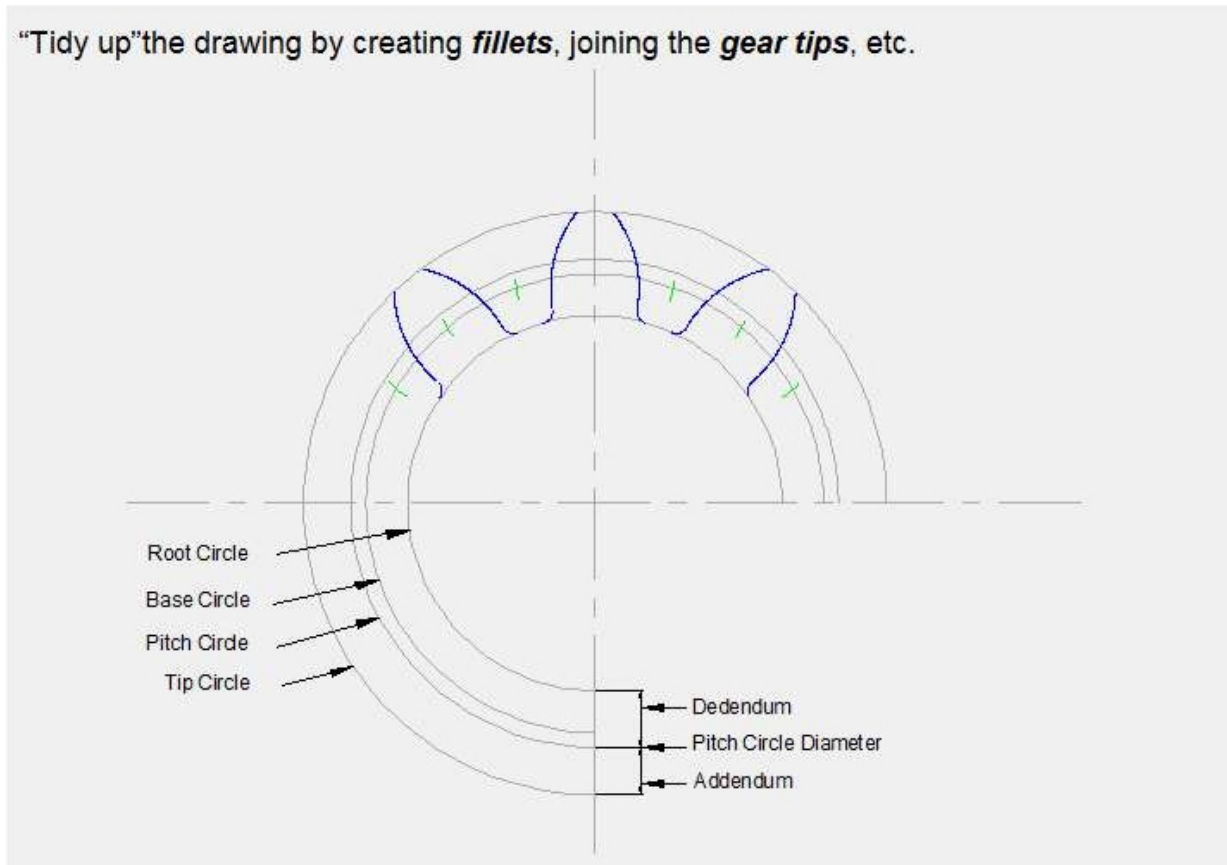


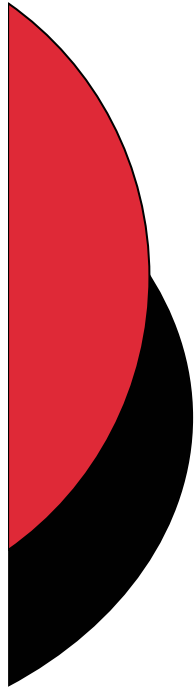
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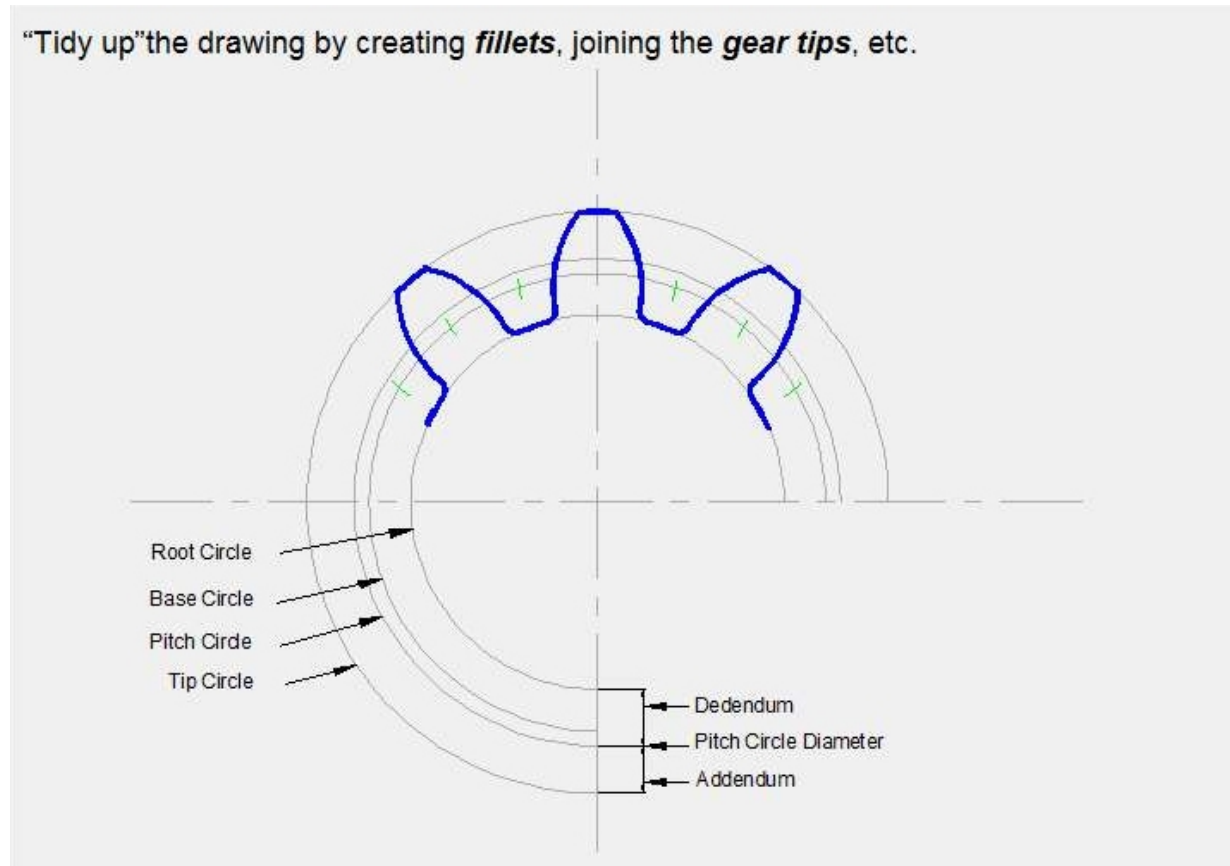


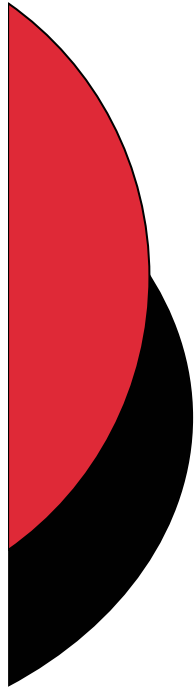
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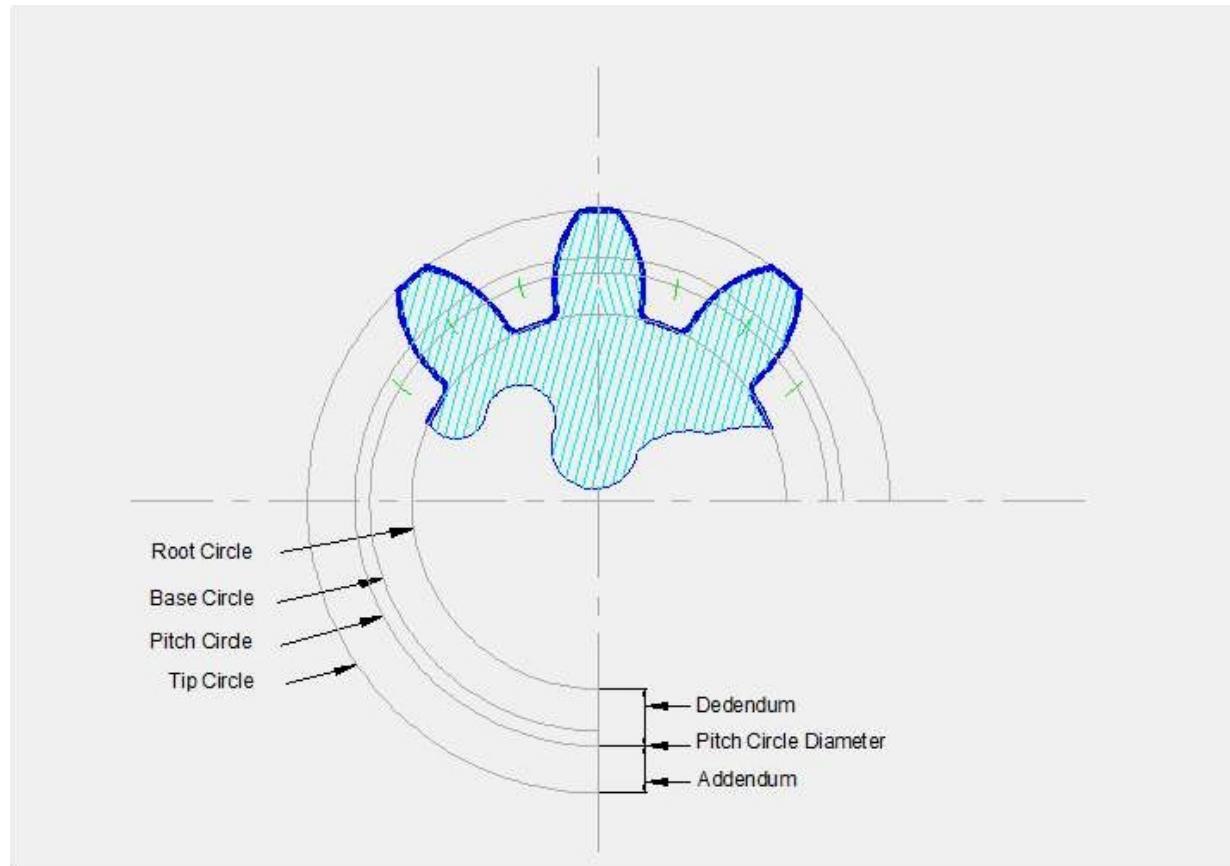


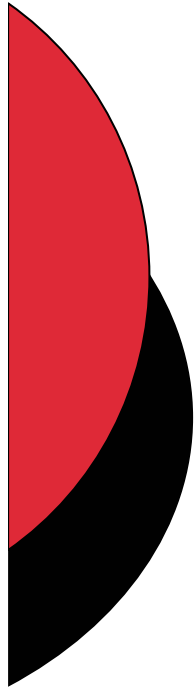
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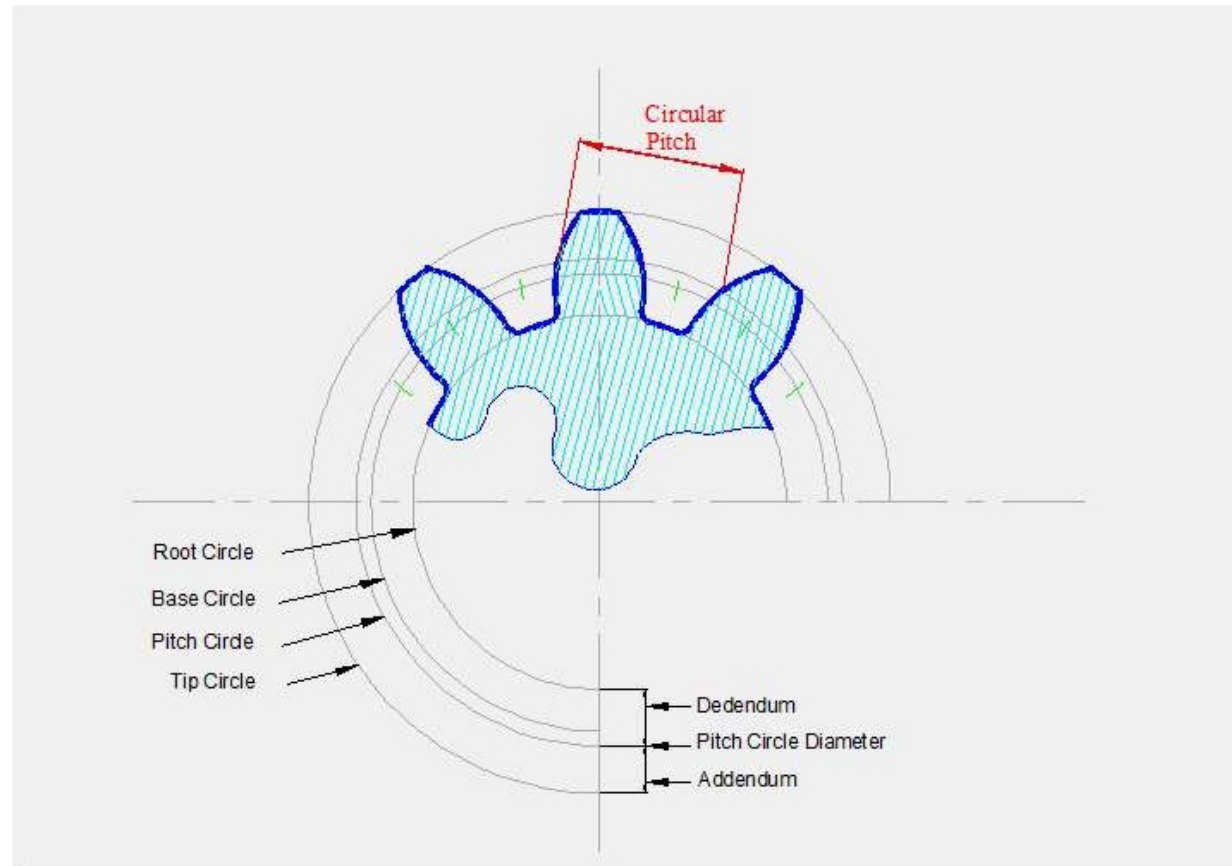


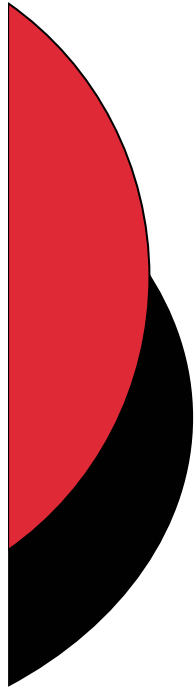
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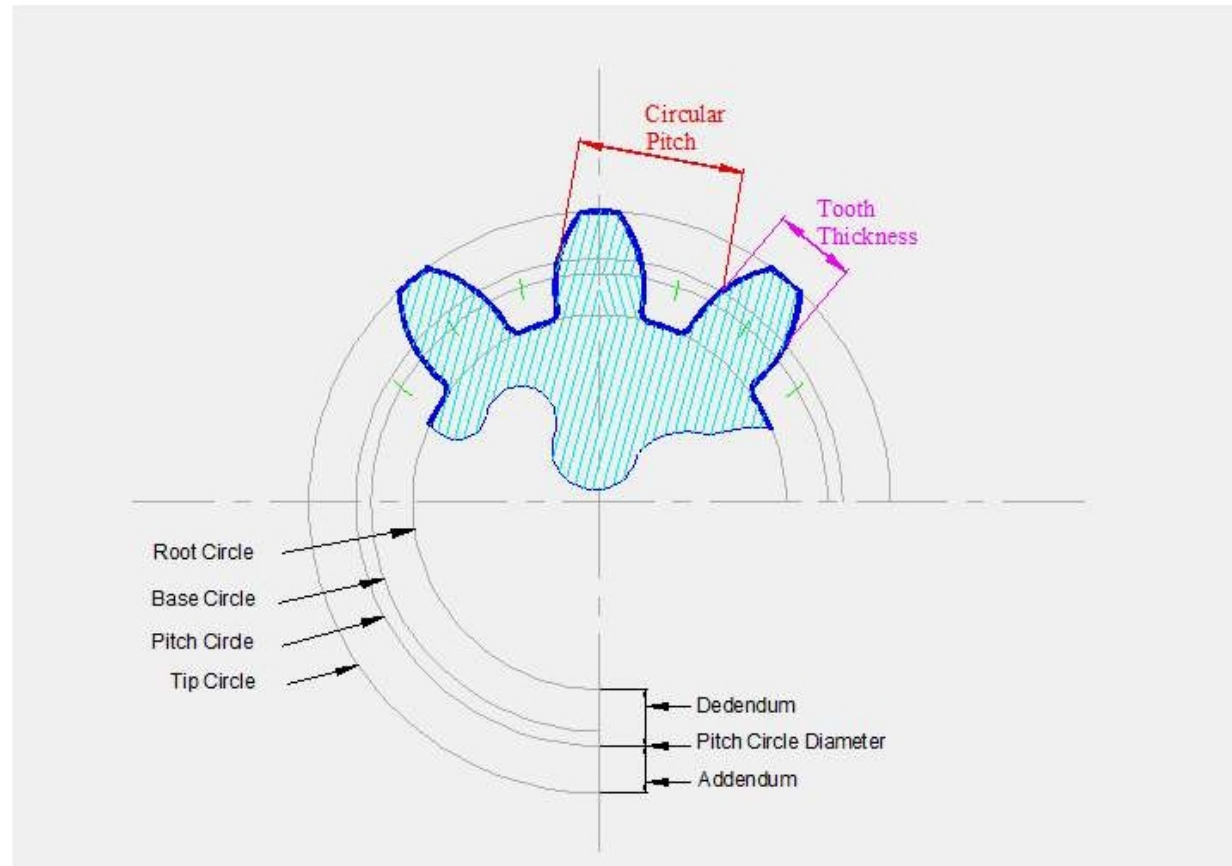


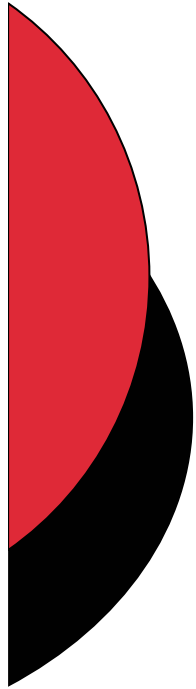
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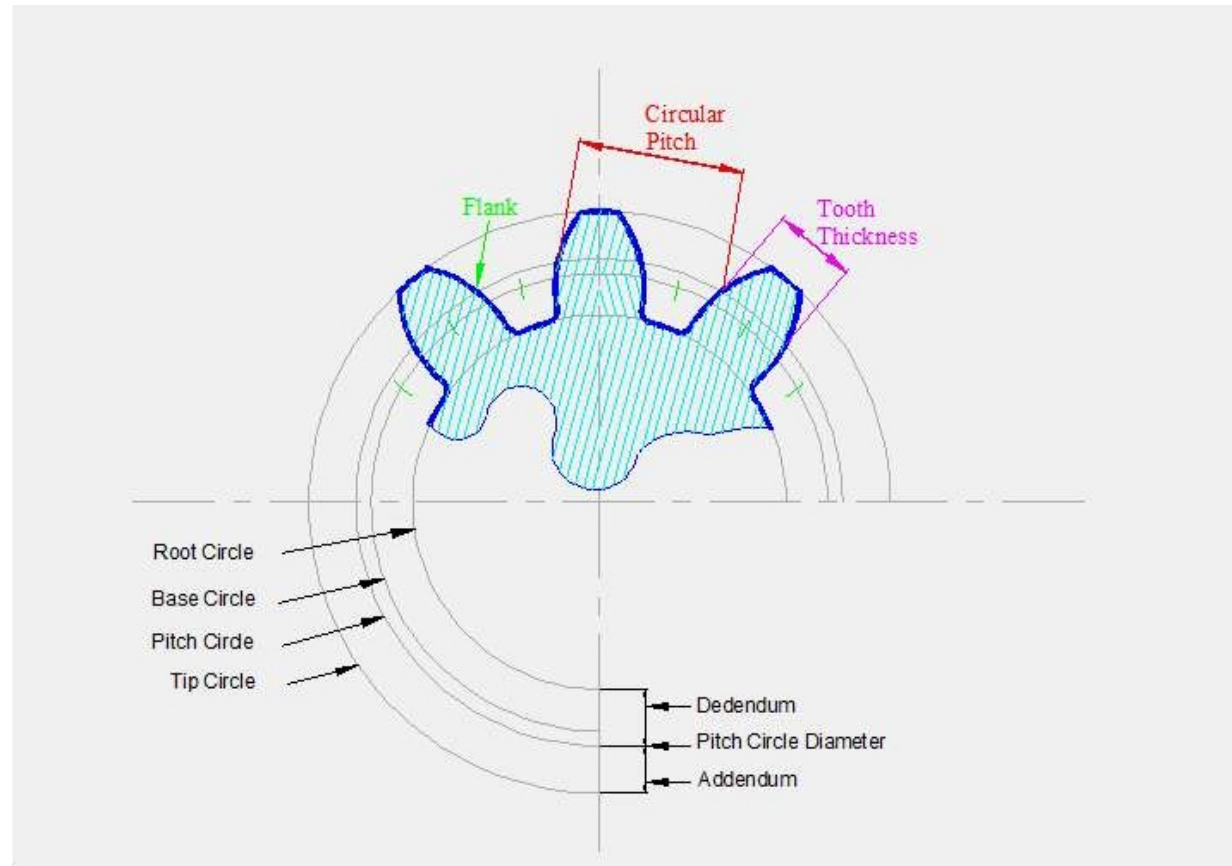


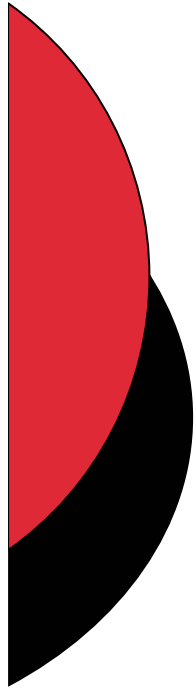
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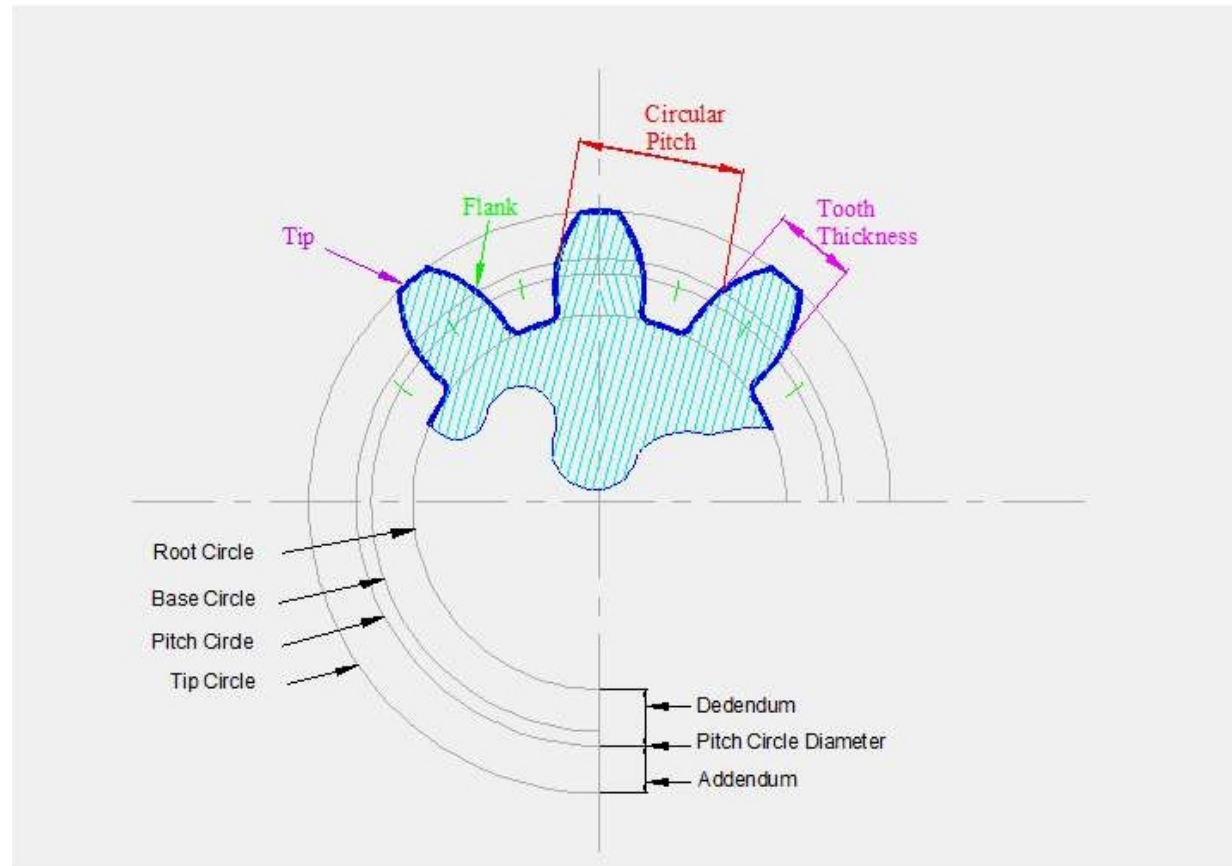


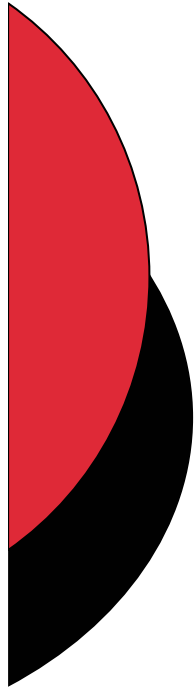
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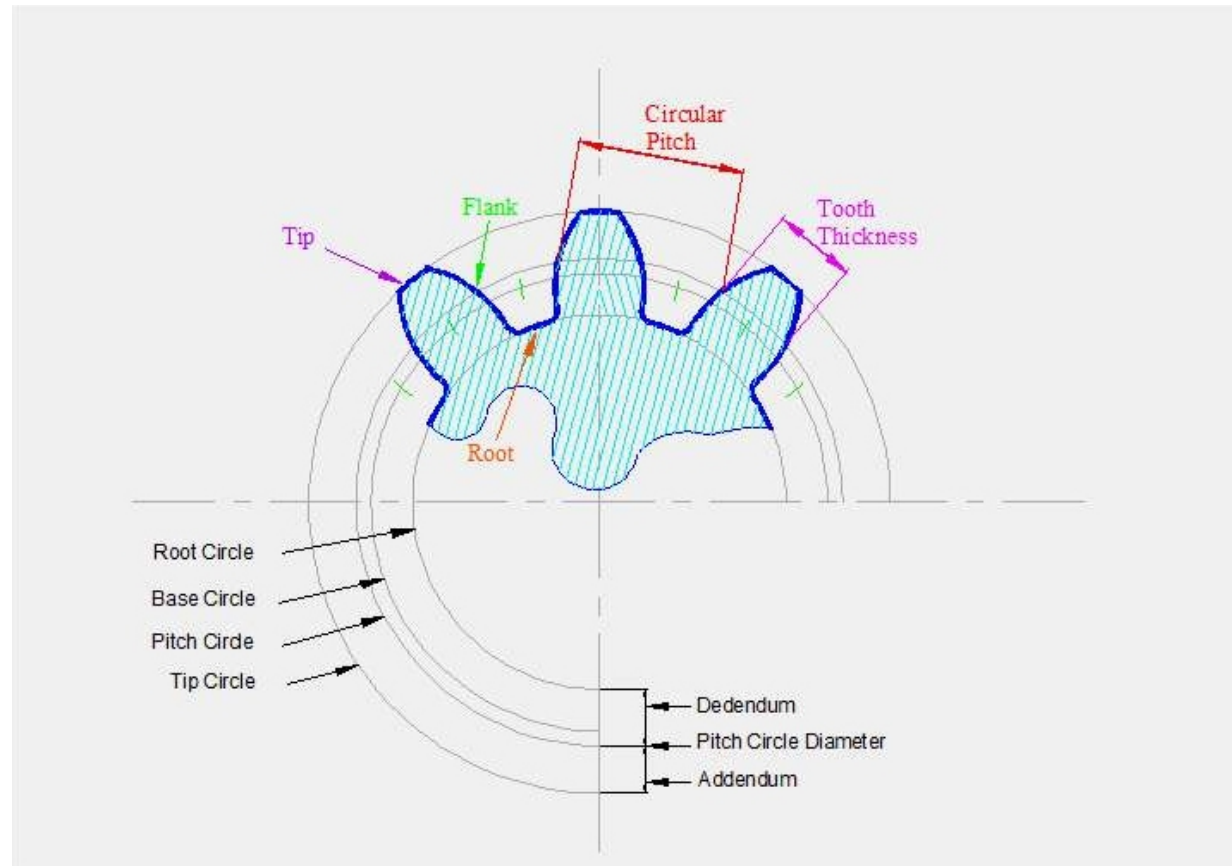


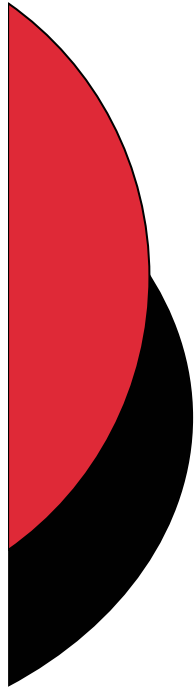
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