

Circular interpolation

Tuesday, October 25, 2016 12:45 PM

O3 (Circular interpolation)

N5 G54

N10 G52 X0 Y0 Z29.5

N15 T1 M6 H1 G43

N20 G97 S1500 G94 F250 M3

N25 G0 X-30 Y20 (1)

N30 Z0 (1)

N35 G1 X90 (2)

N40 Y40 (3)

N45 X-30 (4)

N50 T2 M6 H2 G43

N55 G97 S2000 G94 F200 M3

N60 G0 X-30 Y30

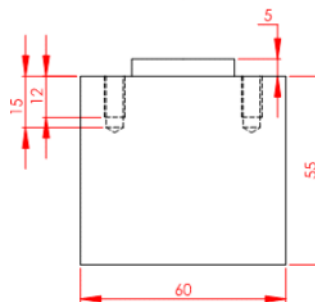
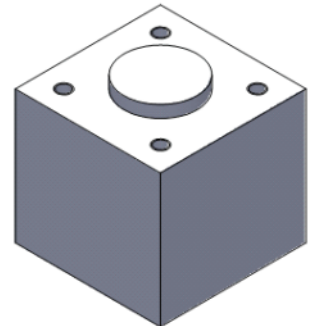
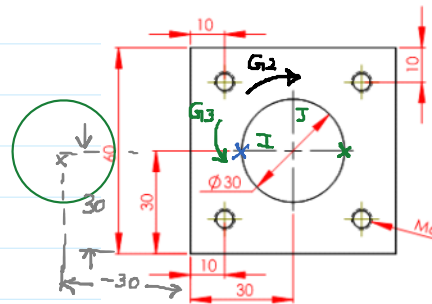
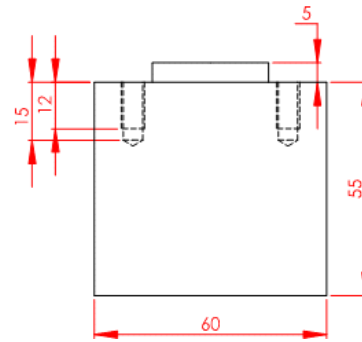
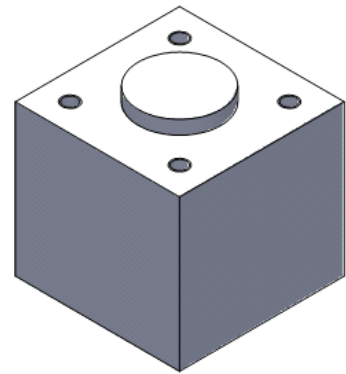
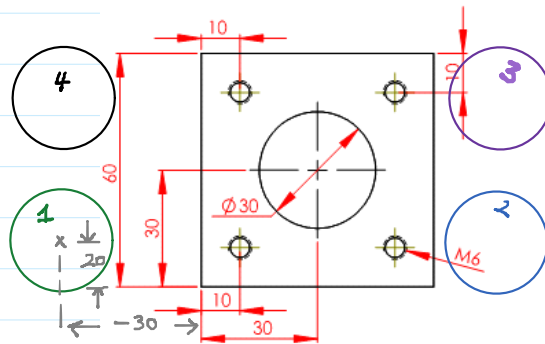
N65 Z0

N70 Z-2.5

N75 G1 X15 H12 G41

N80 G2 X15 Y30 I15 J0

G2 X45 Y30 R15 }
G2 X15 Y30 R15 }



N85 G1 X-30 G40

N90 G0 Z-5

N95 G1 X15 H12 G41

N100 G2 X15 Y30 I15 J0

N105 G1 X-30 G40

N110 T7 M6 H7 G43

N115 G97 S1200 G94 F100 M3

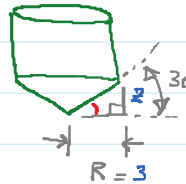
N120 G0 X10 Y10 Z10

N125 G1 Z-6.7 (-1.7 -5)

N130 Z10

N135 G0 X10 Y50

N140 G1 Z-6.7



soh cah Toa

$$\tan \theta = \frac{0}{a} = \frac{15}{R}$$

$$\frac{15}{3} = \tan \theta R$$

$$= \tan(30) \times 3 = 1.73$$

N145 G0 Z10

N150 X50

N155 G1 Z-6.7

N160 G0 Z10

N165 Y10

N170 G1 Z-6.7

N175 G0 Z10

N180 T4 M6 H4 G43

N185 G97 S2000 G94 F150 M3

N190 G0 X10 Y10 Z1

N195 G1 Z-20 Q3 Q3: CUTTING DIVISION OF 3MM

Withdrawing drilling cycle

Z-20: DRILLING DEPTH OF 20MM

N200 Y50

N205 X50

N210 Y10

N215 G0 Z10

N220 M30

