Which of the following is not a common component of an engine lathe:

A. headstock  
B. cross slide  
C. tool post  
D. tailstock  
E. ram

What rotates on a lathe:

A. the cutting tool  
B. the chuck  
C. the material / workpiece  
D. answers B & C  
E. none of the above

Turning is a metal cutting process used mainly for the generation of rectangular surfaces.

TRUE / FALSE

Which of the following is not a common workholding method on a lathe:

A. holding in a chuck  
B. holding between centers  
C. holding in the tailstock  
D. holding in a collet  
E. none of the above

When operating a lathe the tool bit should typically be positioned:

A. above center to obtain better surface finish  
B. below center to enhance chip evacuation  
C. directly on the spindle centerline  
D. none of the above

List the three required items you must bring every week to your laboratory session AND to TA office hours:

1. __________________________________________
2. __________________________________________
3. __________________________________________

Name:

Lab Period:  
T5-6 / T7-8 / T9-10  
(circle one) W2-3 / W4-5 / W7-8 / W9-10  
R2-3 / R4-5 / R7-8 / R9-10

Milling is a metal cutting process used primarily for the generation of cylindrical surfaces.

TRUE / FALSE

What rotates on a milling machine:

A. the material / workpiece  
B. the cutting tool  
C. the spindle  
D. answers B & C  
E. none of the above

Common types of milling machines include:

A. knee and column mills  
B. bed mills  
C. turret mills  
D. drill mills  
E. A & B above

Which of the following is the most common workholding method on a milling machine:

A. holding in a chuck  
B. holding between centers  
C. holding in a vise  
D. holding in a collet  
E. holding in your hands

Explain the difference between relay and proportional control:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

List five benefits to using 80/20:

1. __________________________________________
2. __________________________________________
3. __________________________________________
4. __________________________________________
5. __________________________________________