



### Homework-1

Student Name: \_\_\_\_\_

Grade:  $\frac{\quad}{5}$

1- Write the X and Y coordinates of the points shown in Figure 1.

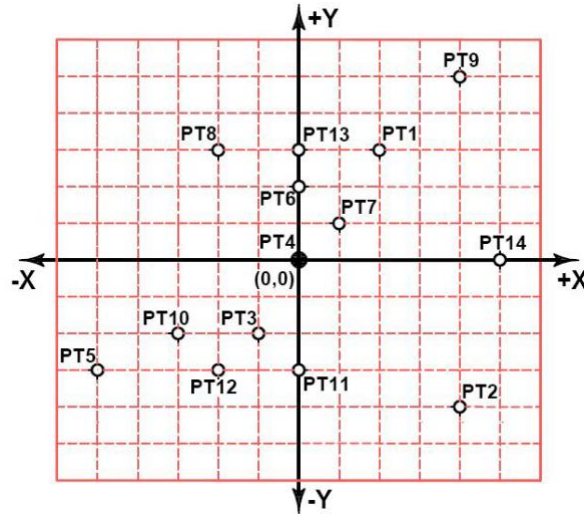


Figure 1

POINT	Absolute Coordinates		Incremental Coordinates	
	X	Y	X	Y
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				



2- Write a line of code in absolute coordinates to move the spindle 10 mm to the right in the X-axis at a feed rate of 150 mm/min.

N01 \_\_\_\_\_

3- Write a line of code to turn the spindle ON in a clockwise direction at 800 rpm.

N01 \_\_\_\_\_

4- Write a line of code to make sure the control is in incremental and metric mode.

N01 \_\_\_\_\_

5- Write two lines of code to make the following move at a feed rate of 100 mm/min. (write one line in absolute mode and one line in incremental mode).



<b>Absolute</b>	N01 _____
<b>Incremental</b>	N01 _____

6- Find the absolute  $X$  and  $Y$  coordinates that must be input for drilling holes 1-4 as shown in **Figure 2**. [ Hint: use right -triangle to find the  $X$  and  $Y$  ]

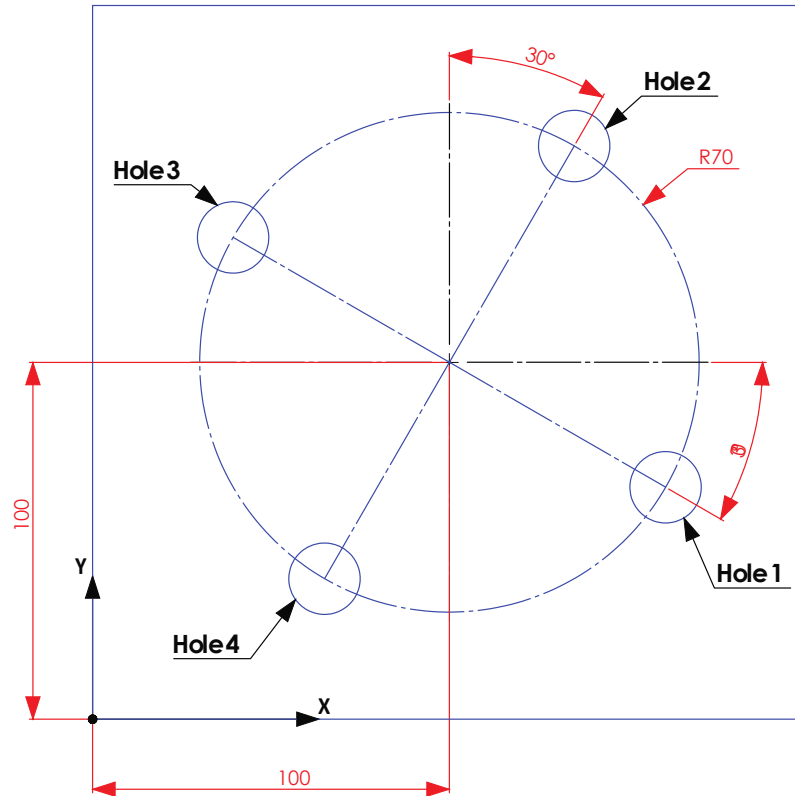


Figure 2