



Bonus-1

Student Name: _____

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

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

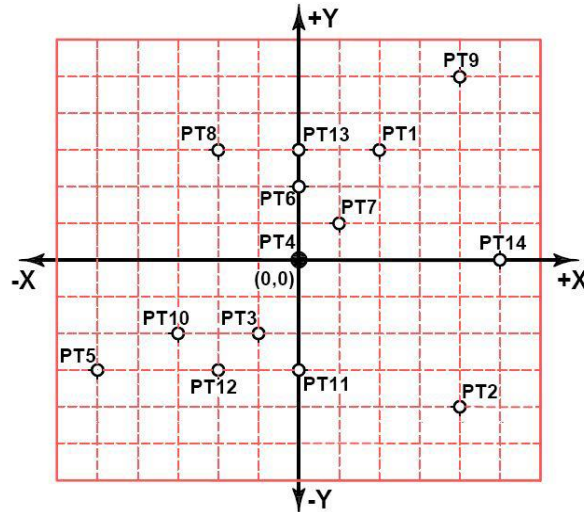


FIGURE 1

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 the **X** and **Y** coordinates of the center of each hole for the hole pattern dimensioning given in **Figure 1-1**.

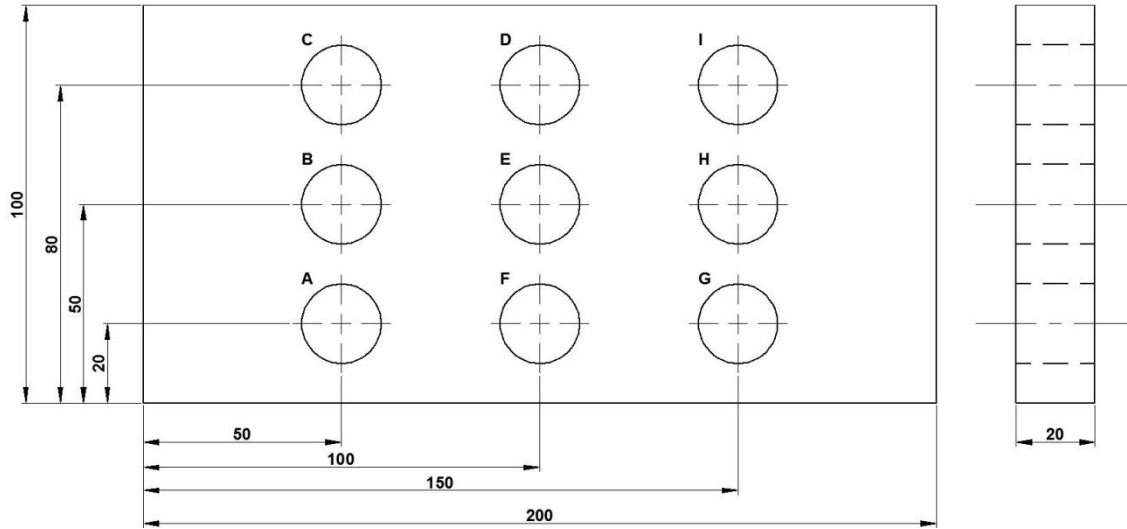


FIGURE 1-1

HOLE	Absolute Coordinates		Incremental Coordinates	
	X	Y	X	Y
A				
B				
C				
D				
E				
F				
G				
H				
I				



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

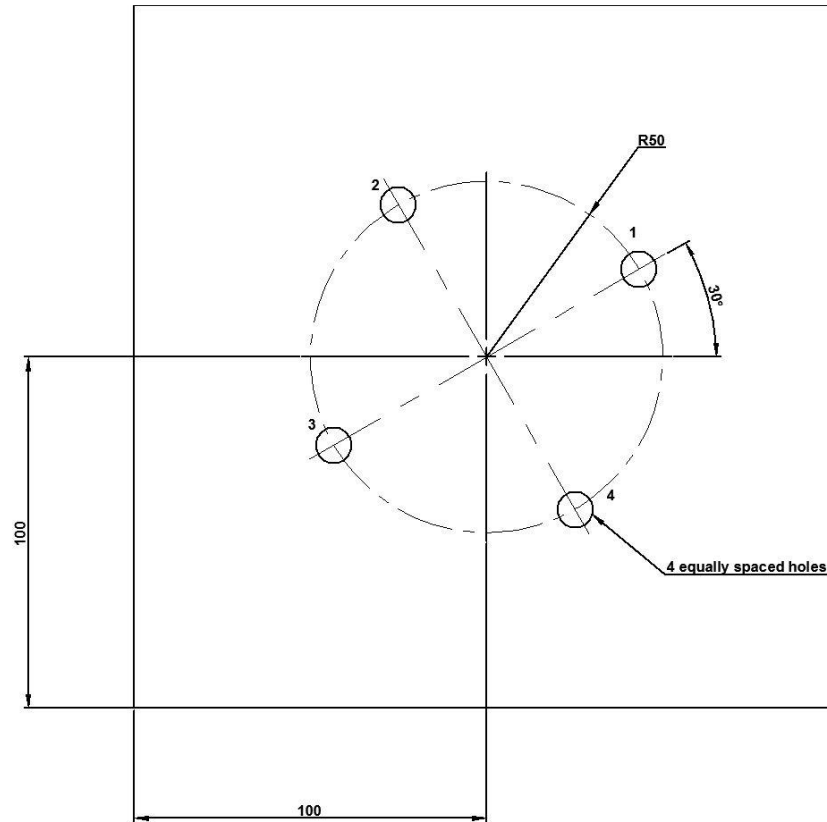


FIGURE 1-2