

Diagram A

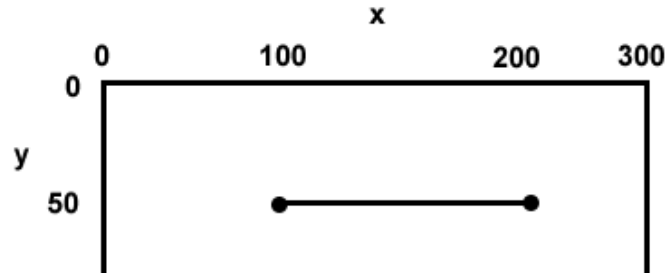
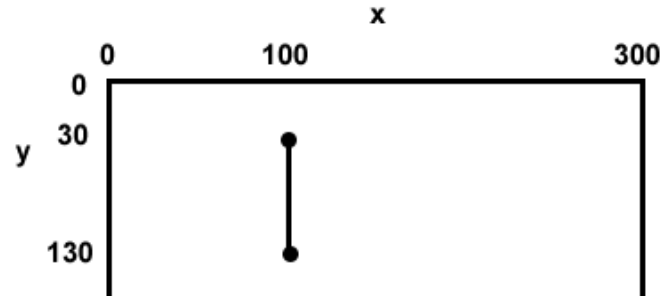


Diagram B



1. Complete the If statement so it detects a collision between a picture box named `picX` and the horizontal line depicted in **Diagram A**.

```
If (picX.Top _____ And picX.Bottom _____ And picX.Right _____ And picX.Left _____)Then  
    MessageBox.Show("collision with line")  
End If
```

2. Complete the If statement so it detects a collision between a picture box named `picX` and the vertical line depicted in **Diagram B**.

```
If (picX.Right _____ And picX.Left _____ And picX.Bottom _____ And picX.Top _____)Then  
    MessageBox.Show("collision with line")  
End If
```

3. On the back of this paper, draw a rectangle that represents a Form that is 300 pixels wide and 300 pixels tall. Label the x and y axis. Sketch the lines drawn by the following statements

```
e.Graphics.DrawLine(Pens.Black, 30, 70, 240, 70)      ' line 1  
e.Graphics.DrawLine(Pens.Black, 50, 110, 50, 220)    ' line 2
```

Label the lines as "Line 1" and "Line 2". Also, label the endpoints of both lines in (x, y) coordinate notation.

Write If statements that would detection collisions between a picture box named `picX` and the lines labeled line 1 and line 2 in Exercise #3 above.

4. (line 1)

5. (line 2)