**Mathematics II Midterm Exam. (B)**

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| مجموعة ( ) | سكشن ( ) | رقم الجلوس ( ) | اسم الطالب: |

**Complete the following**

1. The second degree equation represents a pair of two lines

is ………………………………………………………………………….

When the axis transfer to the point (3,1) the equation becomes ………………………...........……

1. The equation of the line which has intercept **-**2 on x-axis and intercept **-**5 on y-axis is …………………………………………….
2. When the axis rotates by an angle 45° the equation becomes ………………………….
3. The equation of the circle which touch the coordinate axis at (4,0)and (0,4) is …………………………………………………………………………………………………………………………………..….…
4. The angle between the lines is…………………………………………………………
5. The separation equations for the lines are ……………………………………………………………………………………………………………………..………….……
6. The equation of bisectors for the angle between the lines is …………………………….………………………………………………………………………………………………………………
7. The equation transform to Cartesian coordinates becomes

……………………………………………………………………………………………………………………………….…………...

استخدم خلف الورقة لحل السؤالين التاليين

1. Find the value of λ such that the equation represent a pair of lines then fined the equation of the bisectors of the angle between them.
2. Find the value C such that the circle has a radius units and find the equation of the tangent at .