**Mathematics II Midterm Exam (A)**

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

**Complete the following**

1. The locus of a point which is at a distance 3 from the point (3,-1) is

………………………………………………………………………………………………………………………………………

when the axis transferred to the point (3, -1) the equation becomes

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

1. The equation of the line which has intercept 3 on x-axis and intercept 4 on y-axis is ……………………………………………………………………………………………………………………………..….
2. When the axis rotate by an angle 45° the equation becomes …………………….
3. The equation of the circle which passes through the origin and cuts off intercepts equal to 4 and 5 from the x-axis and y-axis respectively is……………………………………………………….………..
4. The angle between the lines is…………………………………………………………
5. The equation of the bisectors for the angle between the lines

……………………………………………………………………………………………

1. The separation equation of the lines are ……………………….………….……
2. The equation transfer to 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 the find equation of the tangent at .