Quiz 1

[1] State the definition of the circle.

[2]Find the angle between the lines: $2x^2 + 5xy - 3y^2 = 0$ and separate them.

[3] Write the equation of circle in which the points (2, –1), (–1, 1) are ends of diameter.

[4] Show that the circles $x^2 + y^2 - 2x + 3y + 2 = 0$, $x^2 + y^2 + 3x + 2y - 2 = 0$ are orthogonal

[5] Find the radical axis of the circles and find the points of intersection:

$x^2 + y^2 - 2x - 4y + 4 = 0$, $x^2 + y^2 - 4x - 2y + 2 = 0$

Quiz 1

[1] State the definition of the line.

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[4]Find the angle between the lines: $2x^2 + 5xy - 3y^2 = 0$ and separate them.

Quiz 2

[1] State the definition of the circle.

[2] Find vertex, focus and sketch the parabola $x^2 - 4x + 8y + 20 = 0$.

[3]Write the equation of parabola where the focus is F(– 2, 0), directrix is $y + 4 = 0$.

[4]Find the center, vertices and sketch of the ellipse $x^2 + 4y^2 - 4x + 8y + 4 = 0$.

Quiz 2

[1] State the definition of the parabola.

[2]Write the equation of parabola where the focus is F(– 2, 0), directrix is $y + 4 = 0$.

[3] Find vertex, focus and sketch the parabola $x^2 - 4x + 8y + 20 = 0$.

[4]Find the center, vertices and sketch of the ellipse $x^2 + 4y^2 - 4x + 8y + 4 = 0$.

Quiz 2

[1] State the definition of the ellipse.

[2]Write the equation of parabola where the focus is F(– 2, 0), directrix is $y + 4 = 0$.

[3] Find vertex, focus and sketch the parabola $x^2 - 4x + 8y + 20 = 0$.

[4]Find the center, vertices and sketch of the ellipse $x^2 + 4y^2 - 4x + 8y + 4 = 0$.

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[1] State the definition of the line.

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Quiz 2

[1] State the definition of the line.

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[4]Find the center, vertices and sketch of the ellipse $x^2 + 4y^2 - 4x + 8y + 4 = 0$.

Quiz 3-A

[1] State the definition of the line.

[2]Determine center, vertices and sketch the hyperbola $x^2 - 4y^2 - 6x - 24y - 31 = 0$

[3]Determine the type of the curve $x^2 + 2xy + y^2 - 2x + y = 0.$

Quiz 3-A

[1] State the definition of the line.

[2]Determine center, vertices and sketch the hyperbola $x^2 - 4y^2 - 6x - 24y - 31 = 0$

[3]Determine the type of the curve $x^2 + 2xy + y^2 - 2x + y = 0.$

Quiz 3-B

[1] State the definition of the parabola.

[2]Determine center, vertices and sketch the hyperbola $x^2 - 4y^2 + 4x + 24y - 36 = 0$

[3]Determine the type of the curve $2x^2 - xy - y^2 + 4x + y + 2 = 0.$

Quiz 3-C

[1] State the definition of the ellipse.

[2]Determine center, vertices and sketch the hyperbola $4x^2 - y^2 + 16x - 4y + 16 = 0$

[3]Determine the type of the curve $x^2 + 3xy + y^2 + x - 1 = 0$

Quiz 3-D

[1] State the definition of the hyperbola.

[2]Determine center, vertices and sketch the hyperbola $3x^2 - y^2 + 18x - 4y + 24 = 0$

[3]Determine the type of the curve $x^2 + 2xy + 3y^2 + y + 3 = 0$

Quiz 3-D

[1] State the definition of the hyperbola.

[2]Determine center, vertices and sketch the hyperbola $3x^2 - y^2 + 18x - 4y + 24 = 0$

[3]Determine the type of the curve $x^2 + 2xy + 3y^2 + y + 3 = 0$