Assignment 6

Sub date: 2020-10-31, 2020-11-1

Problem 1:
A. A question on the equation of the line is: Determine the equation of the line if two points are given.

B. A question on the graph of the function is: Sketch the graph of the function within the given domain.

C. A question on the transformation of the function is: Apply the transformation to the given function and graph the resulting function.

Problem 2:
A. A question on the equation of the circle is: Determine the equation of the circle if the center and radius are given.

B. A question on the graph of the circle is: Sketch the graph of the circle within the given domain.

C. A question on the transformation of the circle is: Apply the transformation to the given circle and graph the resulting circle.

Problem 3:
A. A question on the equation of the ellipse is: Determine the equation of the ellipse if the center and dimensions are given.

B. A question on the graph of the ellipse is: Sketch the graph of the ellipse within the given domain.

C. A question on the transformation of the ellipse is: Apply the transformation to the given ellipse and graph the resulting ellipse.

Problem 4:
A. A question on the equation of the hyperbola is: Determine the equation of the hyperbola if the center and dimensions are given.

B. A question on the graph of the hyperbola is: Sketch the graph of the hyperbola within the given domain.

C. A question on the transformation of the hyperbola is: Apply the transformation to the given hyperbola and graph the resulting hyperbola.

Problem 5:
A. A question on the equation of the conic section is: Determine the equation of the conic section if the type and parameters are given.

B. A question on the graph of the conic section is: Sketch the graph of the conic section within the given domain.

C. A question on the transformation of the conic section is: Apply the transformation to the given conic section and graph the resulting conic section.

Problem 6:
A. A question on the equation of the parametric curve is: Determine the equation of the parametric curve if the parametric equations are given.

B. A question on the graph of the parametric curve is: Sketch the graph of the parametric curve within the given domain.

C. A question on the transformation of the parametric curve is: Apply the transformation to the given parametric curve and graph the resulting parametric curve.