Name:        
Date:        
School:        
Facilitator:

**4.02 Determining Maximum and Minimum Values Given a Set of Constraints**

Graph each system of constraints to find the vertices of the feasible region using GeoGebra. Then find the values of x and y that maximize or minimize the objective function. Find the maximum or minimum value.

1. Constraints:

Vertices:

A(     ,     )

B(     ,     )

C(     ,     )

D(     ,     )

Maximum for:

Maximum value of       at x =       and y =

2. Constraints:

Vertices:

A(     ,     )

B(     ,     )

C(     ,     )

D(     ,     )

Minimum for:

Minimum value of       at x =       and y =

3. Constraints:

Vertices:

A(     ,     )

B(     ,     )

C(     ,     )

Maximum for:

Maximum value of       at x =       and y =

4. Constraints:

Vertices:

A(     ,     )

B(     ,     )

C(     ,     )

D(     ,     )

Maximum for:

Maximum value of       at x =       and y =