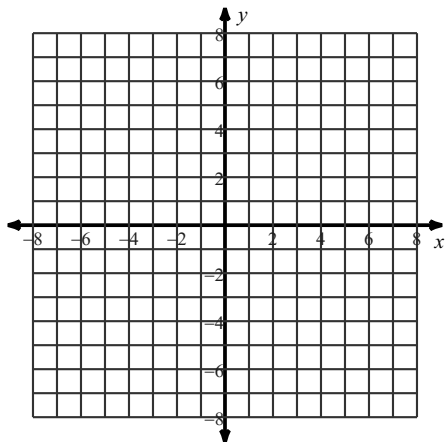


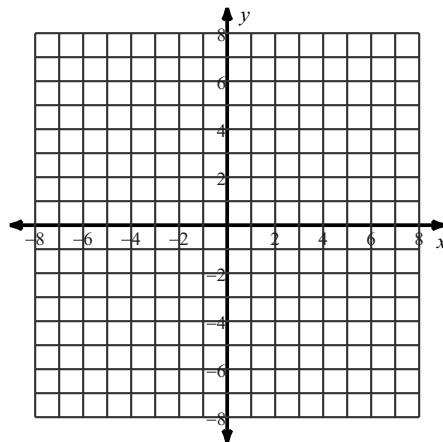
Graphing Ellipses 1 (GE1)

Identify the center, vertices, co-vertices, and foci of each. Then sketch the graph.

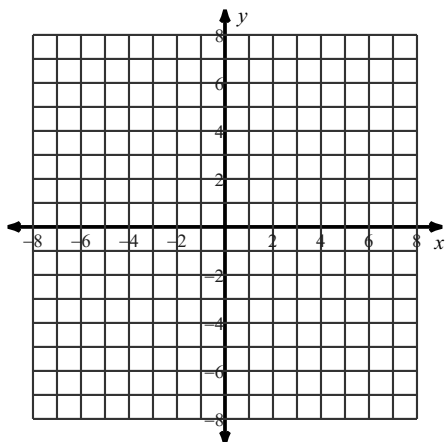
1) $16x^2 + 25y^2 + 32x - 100y - 284 = 0$



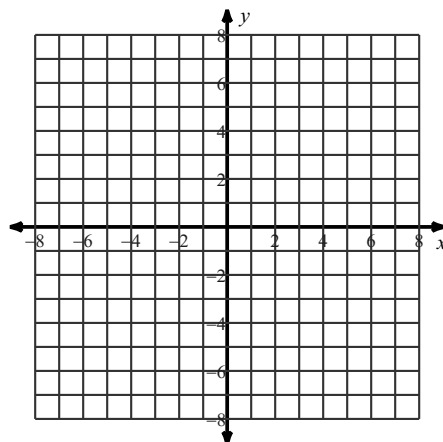
2) $16x^2 + 9y^2 + 96x + 36y + 36 = 0$



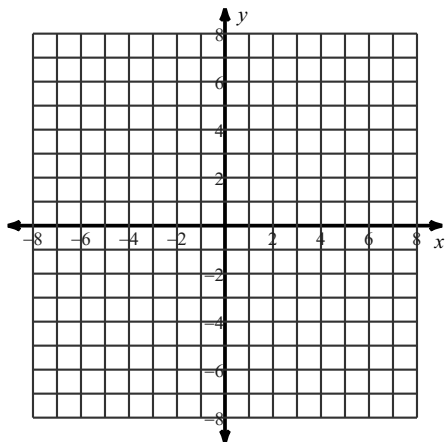
3) $49x^2 + 16y^2 - 294x - 343 = 0$



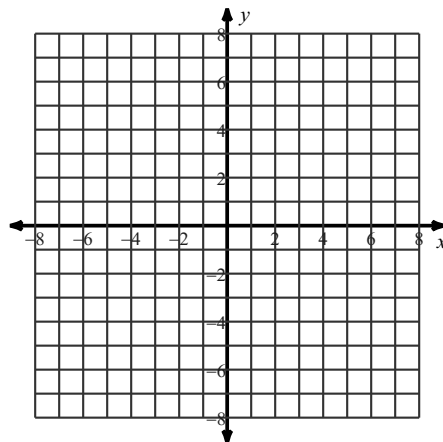
4) $4x^2 + y^2 + 16x - 2y + 1 = 0$



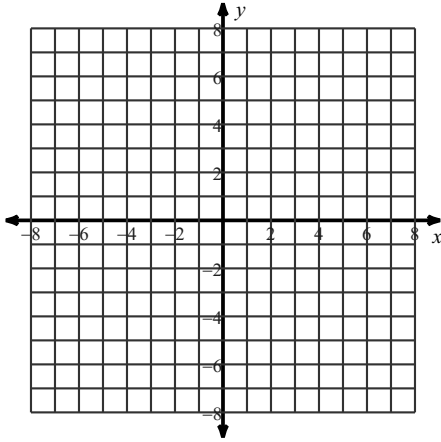
5) $9x^2 + 25y^2 - 36x + 200y + 211 = 0$



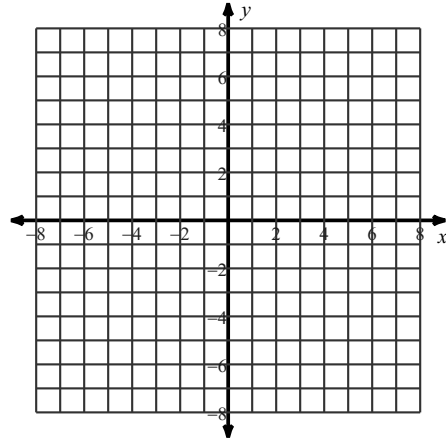
6) $49x^2 + 4y^2 + 98x - 147 = 0$



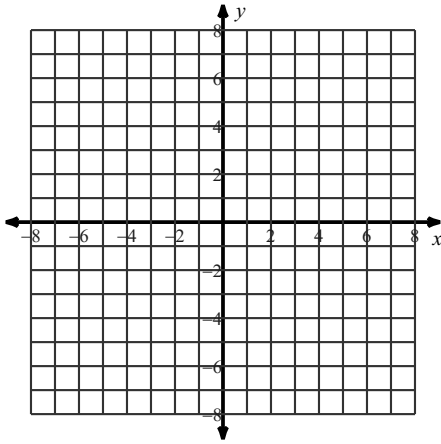
$$7) x^2 + 16y^2 - 64y + 48 = 0$$



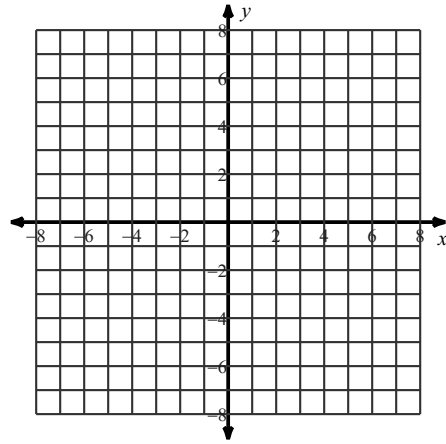
$$8) 5x^2 + y^2 + 10x - 2y - 19 = 0$$



$$9) x^2 + 4y^2 + 2x + 24y + 33 = 0$$

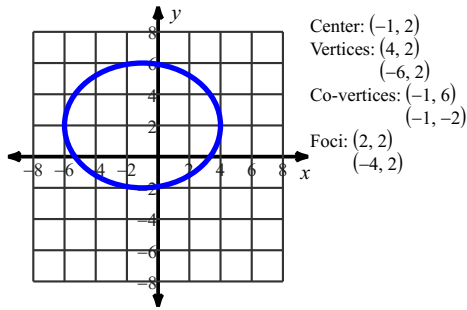


$$10) x^2 + 4y^2 - 2x - 16y - 19 = 0$$

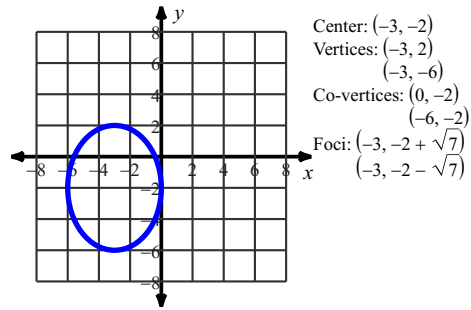


Answers to Graphing Ellipses 1 (GE1)

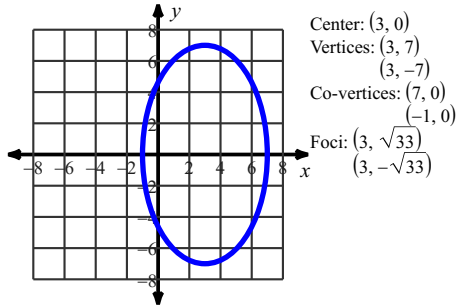
1)



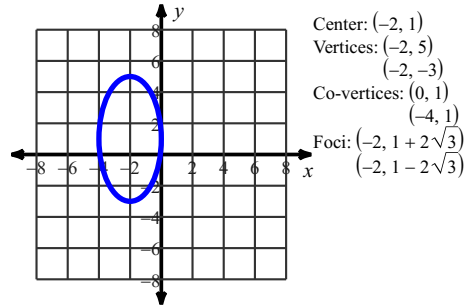
2)



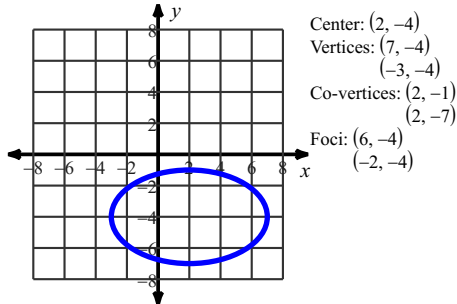
3)



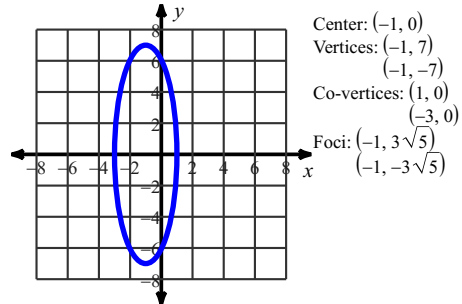
4)



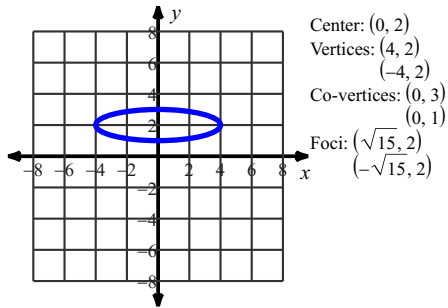
5)



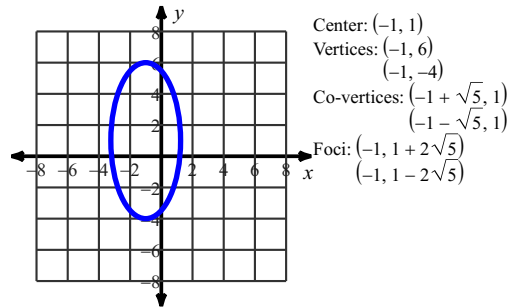
6)



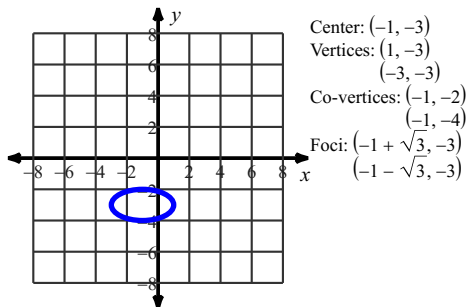
7)



8)



9)



10)

