

Precalculus

Hyperbola WS 2

Graph each Hyperbola. Find the center, vertices, foci, and equation of the asymptotes for each hyperbola.

1. $25y^2 - 4x^2 = 100$

Center _____

Vertices _____

Foci _____

Asymptotes _____



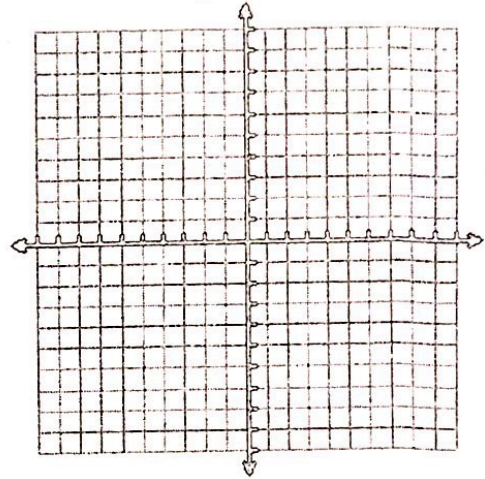
2. $9(x-2)^2 - 4(y+1)^2 = 36$

Center _____

Vertices _____

Foci _____

Asymptotes _____



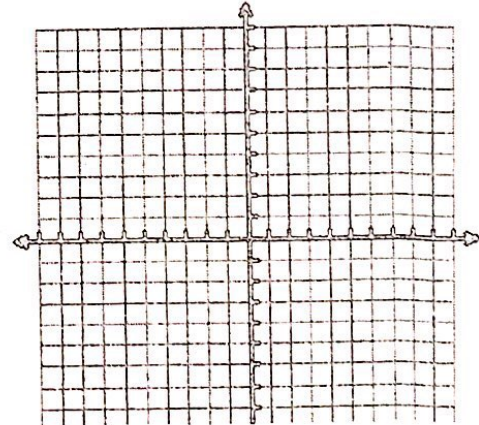
3. $9x^2 - y^2 - 36x - 6y + 18 = 0$

Center _____

Vertices _____

Foci _____

Asymptotes _____



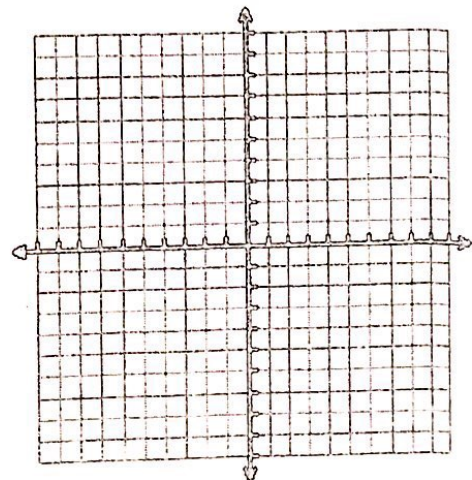
4. $16y^2 - x^2 + 2x + 64y + 47 = 0$

Center _____

Vertices _____

Foci _____

Asymptotes _____



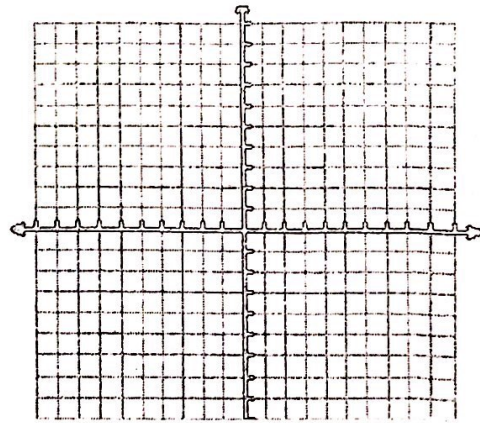
5. $25x^2 - 4y^2 - 50x + 24y - 111 = 0$

Center _____

Vertices _____

Foci _____

Asymptotes _____



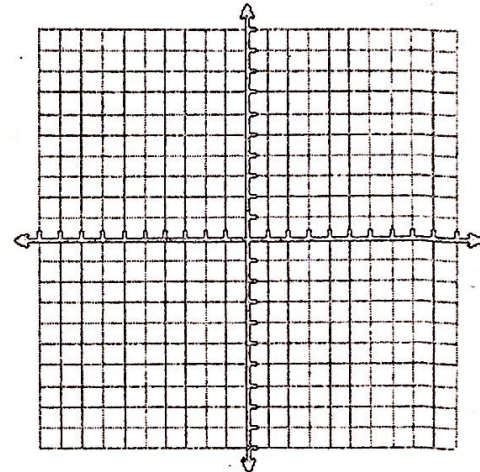
6. $9x^2 = 4y^2 - 54x - 8y - 41$

Center _____

Vertices _____

Foci _____

Asymptotes _____



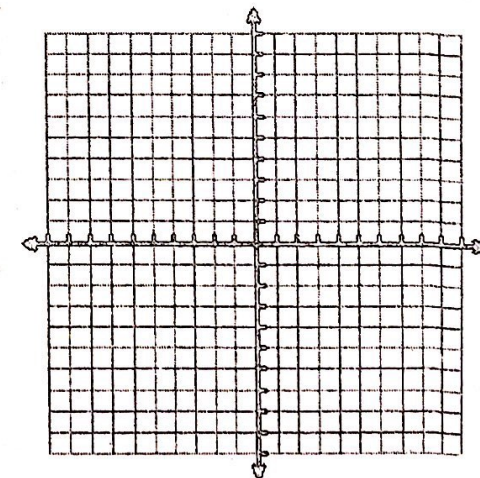
7. $-25x^2 + 16y^2 - 281 = 50x - 96y$

Center _____

Vertices _____

Foci _____

Asymptotes _____



8. $16y^2 - x^2 + 2x + 64y - 1 = 0$

Center _____

Vertices _____

Foci _____

Asymptotes _____

