Pre-Calc   Name _____
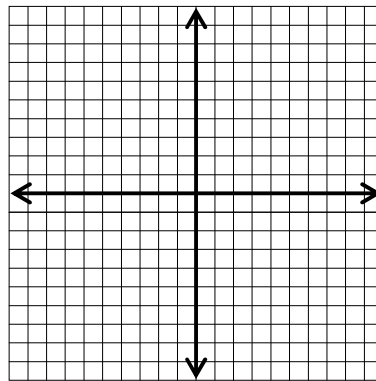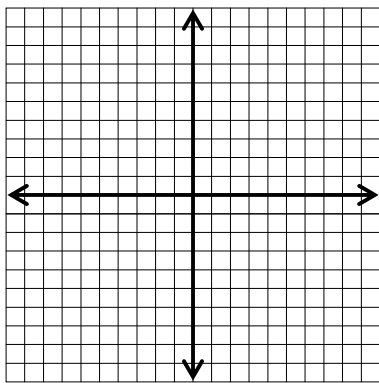HW – Hyperbolas- Day 1

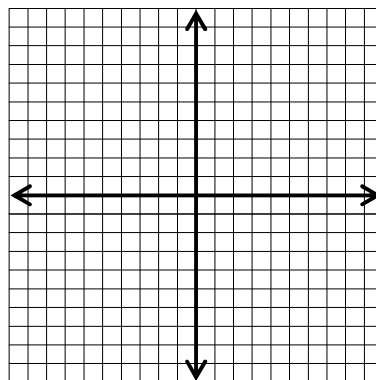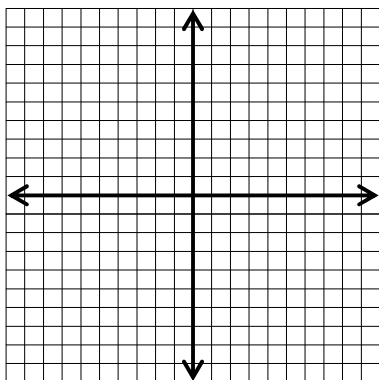For questions 1 – 6, find the vertices, foci, and slopes of asymptotes and sketch a graph for each.

1) $4y^2 - 9x^2 = 36$ 2) $x^2 - y^2 = 16$

3) $4(x-1)^2 - (y-2)^2 + 1 = 5$ 4) $(y+3)^2 - 16(x-2)^2 = 16$

5. $\dfrac{(y-4)^2}{4} - \dfrac{x^2}{36} = 1$

6) $\dfrac{(x-1)^2}{25} - \dfrac{y^2}{12} = 1$