

**MATH 1151 QUIZ-14** (10 minutes)

1. **(5 points)** Find the vertices, foci, asymptotes of the hyperbola  $x^2 - y^2 = a^2$  where  $a > 0$ . Graph the equation.

There is no need to write the solution for this problem.

2. **(5 points)** Find the solution of the system of linear equations,  $x + y + z = 3$ ,  
 $x - y + z = 1$ ,  $x - 2y + 3z = 2$  .

**Solution:** From substitution, elimination, Kramer's method or Augmented Matrix method one can get that  $(1, 1, 1)$  is the solution. **Q.E.D.**