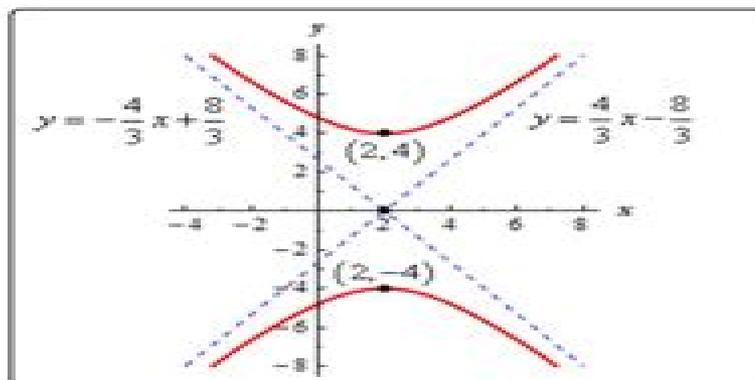


### Step 3

Here is a sketch of the hyperbola including the points and asymptotes we found above.



2. Sketch the graph of the following hyperbola.

$$\frac{(x+3)^2}{4} - \frac{(y-1)^2}{9} = 1$$

### Step 1

The first step here is to simply compare our equation to the standard form of the hyperbola and identify all the important information. For reference purposes here is the standard form of the hyperbola that matches the one we have here.

$$\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$$

Comparing our equation to this we can see we have the following information.

$$h = -3 \quad k = 1 \quad a = 2 \quad b = 3$$

Because the  $x$  term is the positive term we know that this hyperbola will open right and left.

# Hyperbola Problems And Solutions

**Dr. Ram Dev Sharma, Er. Meera Goyal**



## Hyperbola Problems And Solutions:

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