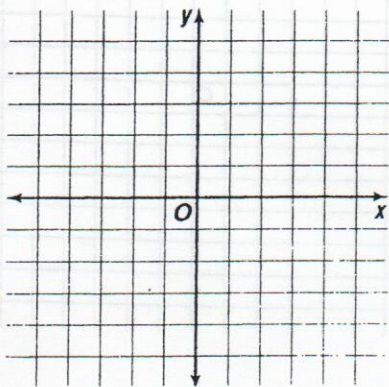


Practice

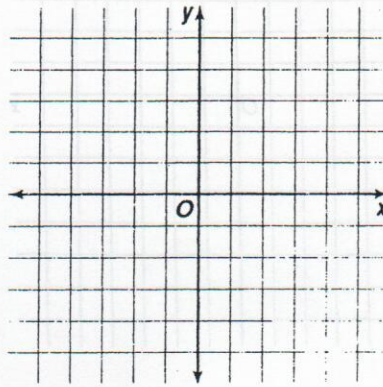
Hyperbolas

Find the coordinates of the vertices and foci and ~~the slopes of the asymptotes~~ for each hyperbola whose equation is given. Then draw the graph.

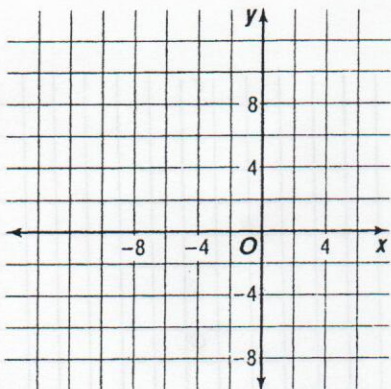
1. $\frac{y^2}{9} - \frac{x^2}{36} = 1$



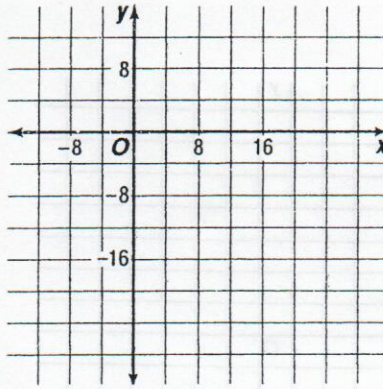
2. $y^2 - 4x^2 = 16$



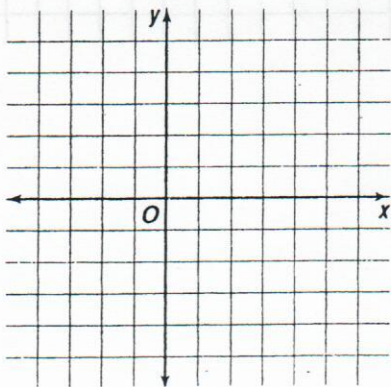
3. $\frac{(y-2)^2}{9} - \frac{(x+3)^2}{25} = 1$



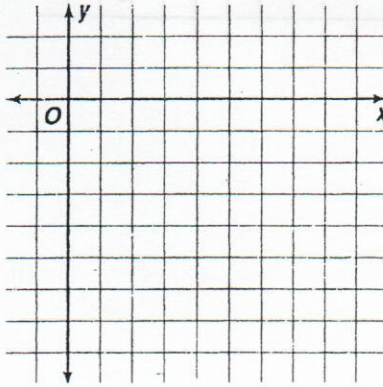
4. $\frac{(x-1)^2}{64} - \frac{(y+4)^2}{16} = 1$



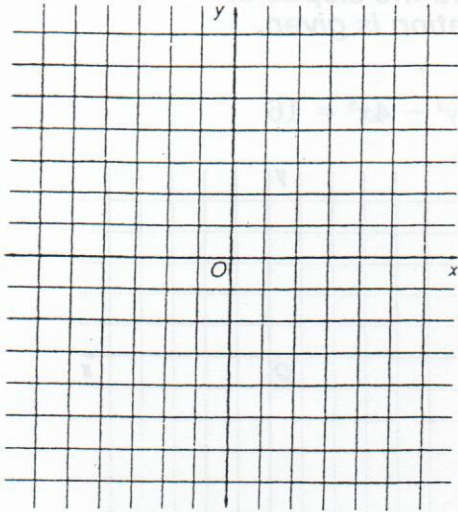
5. $4y^2 - x^2 - 16y + 2x + 11 = 0$



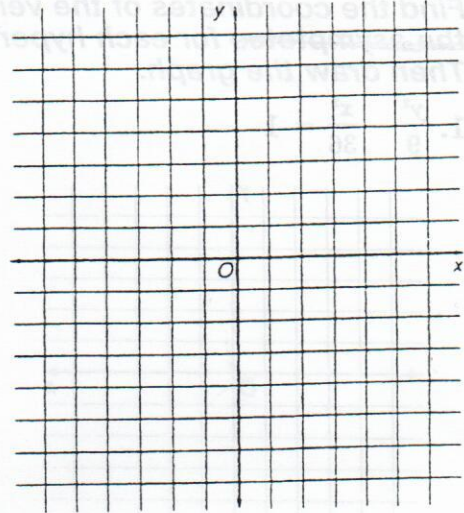
6. $3y^2 - 4x^2 + 12y + 24x = 36$



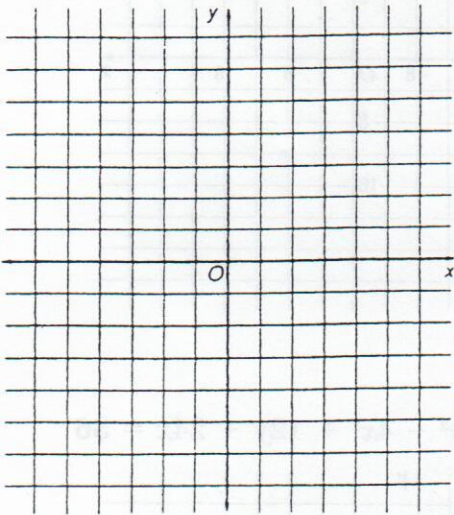
7.
$$\frac{(y-3)^2}{4} - \frac{(x+2)^2}{9} = 1$$



8.
$$6((x-3)^2) - 4(y+1)^2 = 96$$



9.
$$36x^2 - 25y^2 = 900$$



10.
$$y^2 + 6y - 4x^2 + 8x = 11$$

