

Find the equation of the hyperbola that has vertices at (0, 4), (0, -4) and foci at (0, 6) and (0, -6).

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Find the equation of the hyperbola that has vertices at (5,0) and (-5,0) and has a conjugate axis of length 12.

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Find the equation of the hyperbola that has vertices at (4, 4) and (4, 0) and foci at (4, 5) and (4, -1).

Find the equation of the hyperbola that has vertices at (13, 0) and (-1, 0) and has asymptotes at y = x - 6 and y = -x + 6.

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Find the center, foci, and vertices of the hyperbola.

$$\frac{x^2}{25} - \frac{y^2}{144} = 1$$

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Find the asymptotes of the hyperbola.

$$\frac{(y-1)^2}{64} - \frac{(x+1)^2}{225} = 1$$

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Find the center, foci, and vertices of the hyperbola.

$$y^2 - 18x - x^2 - 14y - 132 = 0$$

12

Find the asymptotes of the hyperbola.

$$9x^2 - 90x - 4y^2 + 32y - 163 = 0$$



Graph the hyperbola on your answer sheet.

$$\frac{x^2}{4} - \frac{y^2}{9} = 1$$

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Graph the hyperbola on your answer sheet.

$$\frac{(x-3)^2}{16} - \frac{(y+1)^2}{9} = 1$$

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Graph the hyperbola on your answer sheet.

$$\frac{y^2}{16} - \frac{x^2}{25} = 1$$

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Graph the hyperbola on your answer sheet.

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

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