

10-5B

Practice (continued)

Form G

Hyperbolas

Find the vertices, foci, and asymptotes of each hyperbola. Then sketch the graph.

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

Vertices:

Foci:

14. $\frac{y^2}{9} - \frac{x^2}{25} = 1$

Vertices:

Foci:

15. $\frac{x^2}{25} - \frac{y^2}{4} = 1$

Vertices:

Foci:

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

Vertices:

Foci:

17. $4y^2 - 36x^2 = 144$

Vertices:

Foci:

18. $x^2 - 9y^2 = 9$

Vertices:

Foci:

Graph each equation.

24. $20x^2 - 8y^2 = 160$

25. $27y^2 - 9x^2 = 243$

26. $6x^2 - 28y^2 = 168$