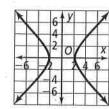
Practice (continued) Hyperbolas

Form G

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

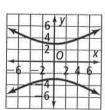
13.
$$\frac{x^2}{4} - \frac{y^2}{4} = 1$$

(±2, 0), (±2 $\sqrt{2}$, 0),
 $y = \pm x$



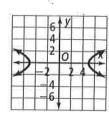
14.
$$\frac{y^2}{9} - \frac{x^2}{25} = 1$$

(0, ±3), (0, ± $\sqrt{34}$),
 $y = \pm \frac{3}{5}x$



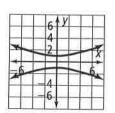
15.
$$\frac{x^2}{25} - \frac{y^2}{4} = 1$$

(±5, 0), (± $\sqrt{29}$, 0),
 $y = \pm \frac{2}{5}x$



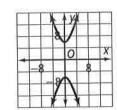
16.
$$y^2 - \frac{x^2}{9} = 1$$

(0, ±1), (0, ± $\sqrt{10}$), $y = \pm \frac{1}{3}x$



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

(0, ±6), (0, ±2 $\sqrt{10}$), $y = \pm 3x$



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

(±3, 0), (± $\sqrt{10}$, 0),
 $y = \pm \frac{1}{3}x$

