

# 10-5 Practice

## Hyperbolas

Form G

1.  $a = 7, b = 2 \quad \frac{x^2}{49} - \frac{y^2}{4} = 1$

2.  $a = 12, b = 11 \quad \frac{x^2}{144} - \frac{y^2}{121} = 1$

9. foci  $(\pm 9, 0)$ , vertices  $(\pm 4, 0) \quad \frac{x^2}{16} - \frac{y^2}{65} = 1$

10. foci  $(\pm 8, 0)$ , vertices  $(\pm 2, 0) \quad \frac{x^2}{4} - \frac{y^2}{60} = 1$

20. foci  $(\pm 7, 0)$ , vertices  $(\pm 3, 0) \quad \frac{x^2}{9} - \frac{y^2}{40} = 1$

21. foci  $(0, \pm 12)$ , vertices  $(0, \pm 10) \quad \frac{y^2}{100} - \frac{x^2}{44} = 1$

22. foci  $(0, \pm 3)$ , vertices  $(0, \pm 2) \quad \frac{y^2}{4} - \frac{x^2}{5} = 1$

23. foci  $(\pm 9, 0)$ , vertices  $(\pm 5, 0) \quad \frac{x^2}{25} - \frac{y^2}{56} = 1$