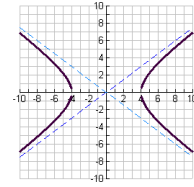


- Set 79:** 2) 20,160 4) current = 6mph, boat = 18mph 6) 27 cis 105°
 8) 2cis30°, 2cis150°, 2cis270° 10) Vertices = (4,0) , (-4,0)

Asymptotes: $y = \frac{3}{4}x$ and $y = -\frac{3}{4}x$

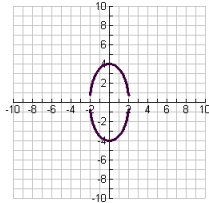


12) $x^6 + 6x^5y + 15x^4y^2 + 20x^3y^3 + 15x^2y^4 + 6xy^5 + y^6$

14) $\frac{\tan \theta}{\sec \theta} = \frac{\frac{\sin \theta}{\cos \theta}}{\frac{1}{\cos \theta}} = \frac{\sin \theta \cdot \cos \theta}{\cos \theta} = \sin \theta$

16) $x = \frac{31}{22}, y = -\frac{7}{22}$ 18) side = 8ft Area = 716.55 ft²

20) $\frac{x^2}{4} + \frac{y^2}{16} = 1$



22) $x = -1, 2$

24) $Y = -1 + 5 \cos 3(X - 50^\circ)$ 26) $\theta = 45^\circ, 135^\circ$

28) $\frac{3\sqrt{10}}{10}$ 30) $y = \frac{5}{3}x - \frac{10}{3}$

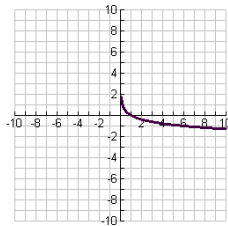
Set 80:

2) (300-hm) mi 4) $T = \frac{3}{2}hr$ 6) 728 8) see teacher

10) 64cis0° 12) $-\sqrt{2} + \sqrt{2}i$ 14) $a^3 + 3a^2b + 3ab^2 + b^3$

16) $x = \frac{23}{11}, y = \frac{15}{22}$ 18) $C = 15^\circ, b = 20.12 \text{ in.}, c = 9.08 \text{ in.}$ 20) $\frac{7}{6} \pm \frac{\sqrt{73}}{6}$

22) $y = -\log_6 x$



24) $y = -6 + 6 \cos \frac{3}{2}(x + 110^\circ)$

26) $x = \frac{\pi}{4}, \frac{7\pi}{4}$

28) $\tan \theta = -\frac{4}{3}$ 30) 5