

1. $-68i - 12j$

2. $\sqrt{65}$

3. $= 163^\circ$

4. $6 \operatorname{cis} \frac{5}{3}$

5. $\frac{(x+4)^2}{16} + \frac{(y-2)^2}{4} = 1$

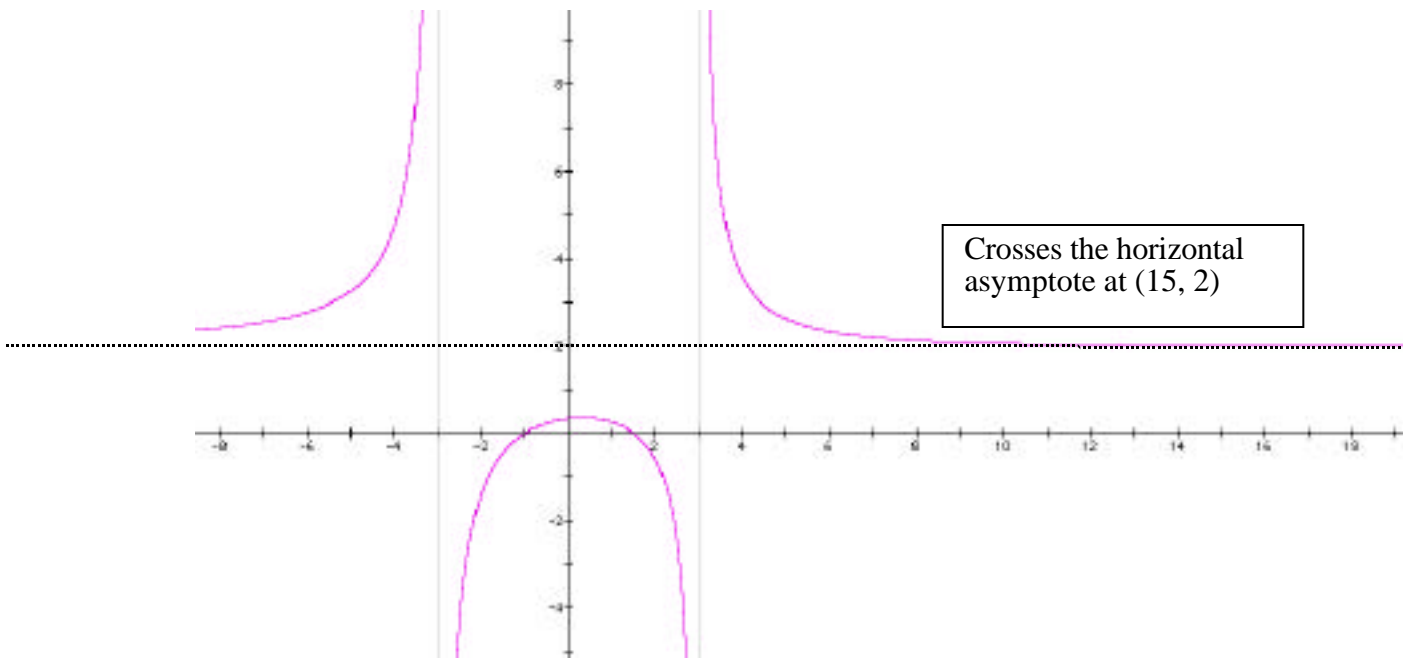
6. $(x+4) = \frac{2}{3}(y-7)^2$

7. x -intercept(s): $\frac{3}{2}, 0, (-1, 0),$

y -intercept(s): $0, \frac{1}{3},$

Vertical asymptote(s): $x = 3, x = -3,$

Horizontal asymptote(s): $y = 2$



8. Magnitude: 86.4 lbs., Direction: 172.9°

9. Center: $(0, 0)$, Vertices: $(0, 7), (0, -7)$, Asymptotes: $y = \pm \frac{7}{4}x$