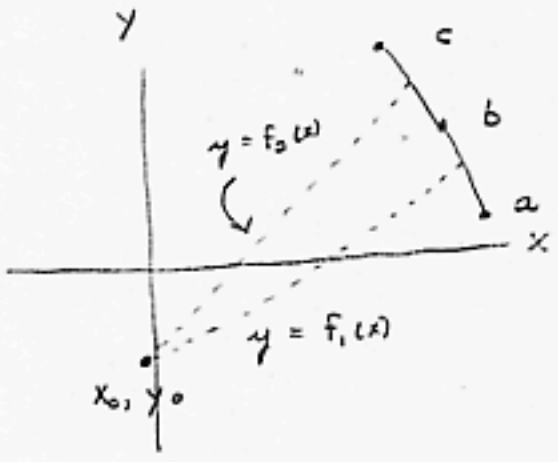
Let us compute R. We know that points a, b, and c lie on a circle of radius R: 2/7

35. cent.



Find ⊥ bisectors of chords to find center of circle.

To determine $f_1(x)$:

$$y = \frac{y_a + y_b}{2} \quad \text{when} \quad x = \frac{x_a + x_b}{2}$$

$$\frac{dy}{dx} = \frac{x_a - x_b}{y_b - y_a}$$

$$\therefore \left(y - \frac{y_a + y_b}{2}\right) = \frac{x_a - x_b}{y_b - y_a}\left(x - \frac{x_a + x_b}{2}\right)$$ is equation for $f_1(x)$

$$\left(y - \frac{y_b + y_c}{2}\right) = \frac{x_b - x_c}{y_c - y_b}\left(x - \frac{x_b + x_c}{2}\right)$$ is equation for $f_2(x)$.