

Putting in the numbers we get

3/7

$$y - .885 = \frac{.27}{1.01} \dots (x - 3.705)$$

35 cont

or

a) $y - .885 = .2673x - .9903$ for $f_1(x)$

$$y - 1.815 = \frac{.43}{.85} (x - 3.355)$$

or

a) $y - 1.815 = .5059x - 1.6972$ for $f_2(x)$

$$-1.1 \Rightarrow .930 = -.2386x + .7069$$

$$\Rightarrow .2386x = -.2231 \Rightarrow x_0 = -.935$$

$$y = 1.815 - 1.6972 - .5059 \odot .935$$

$$y = .1178 - .47301 \Rightarrow y_0 = -.355$$

So coordinates of center are

$$\begin{aligned} x_0 &= -.935 \\ y_0 &= -.355 \end{aligned}$$

Next compute R:

$$\begin{aligned} \text{dist } a: & (3.89 + .935)^2 + (.38 + .355)^2 \\ & = 22.800 + .540 = 23.3408 \Rightarrow R = 4.831 \end{aligned}$$