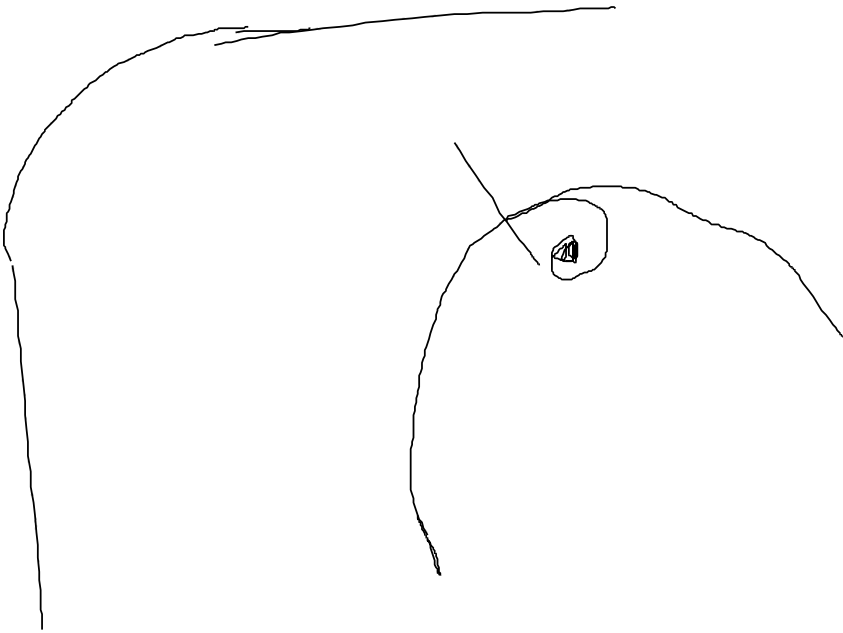
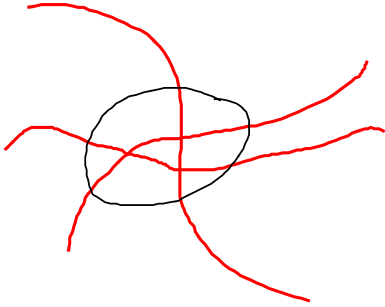


$$\varphi(x) - f(x) =$$

$$= \cancel{(b_1 - a_1)x} + \dots + \cancel{(b_n - a_n)x^n} +$$
$$+ (b_{n+1} - a_{n+1})x^{n+1} + \dots$$



$$y = 1/x \quad x = u \quad y = 1/u$$

$$P_0 = (2, 1/2) \quad u=2$$

$$P_1 = (1, 1) \quad u=1$$

$$x^2 + y^2 + ax + by + c = 0$$

$F(x, y)$

$$\Phi(u) = u^2 + \frac{1}{u^2} + au + \frac{b}{u} + c$$

$$\Phi'(u) = 2u - \frac{b}{u^2} - \frac{2}{u^3} + a$$

$$\Phi''(u) = \frac{2b}{u^3} + \frac{6}{u^4} + 2 \quad \Phi'''(u) = -\frac{6b}{u^4} - \frac{24}{u^5}$$

$$\left. \begin{aligned} \Phi(2) &= c + \frac{b}{2} + 2a + \frac{17}{4} = 0 \\ \Phi'(2) &= -\frac{b}{4} + a + \frac{15}{4} = 0 \\ \Phi''(2) &= \frac{b}{4} + \frac{19}{8} = 0 \end{aligned} \right\}$$

$$x^2 + y^2 - \frac{49}{8}x - \frac{19}{2}y + \frac{51}{4} = 0$$

$$b = -\frac{19}{2}$$

$$a = -\frac{15}{4} - \frac{19}{8} = -\frac{49}{8}$$

$$c = -\frac{17}{4} + \frac{19}{4} + \frac{49}{4} = \frac{51}{4}$$