$$f(x) = (\log(1 - 2x))^2 - (\sin(3x))^2.$$

$$f(x) = (1 - \cos(2x))^2 - (\log(1 - 3x))^2.$$

$$f(x) = (\sin(2x))^2 - (e^{3x} - 1)^2$$
.

$$f(x) = (e^{2x} - 1)^2 - (1 - \cos(3x))^2.$$

$$f(x) = \begin{cases} \frac{x^2 + 2x}{2x^2 + 1} & \text{se } x > \frac{1}{2} \\ -x + \frac{4}{3} & \text{se } 0 < x \le \frac{1}{2} \\ -x^3 - 2x^2 - x - 1 & \text{se } x \le 0 \end{cases}$$

$$f(x) = \begin{cases} -\frac{x^2 + 2x}{2x^2 + 1} & \text{se } x > \frac{1}{2} \\ x - \frac{4}{3} & \text{se } 0 < x \le \frac{1}{2} \\ x^3 + 2x^2 + x + 1 & \text{se } x \le 0 \end{cases},$$

$$f(x) = \begin{cases} \frac{x^2 - 2x}{2x^2 + 1} & \text{se } x < -\frac{1}{2} \\ x + \frac{4}{3} & \text{se } -\frac{1}{2} \le x < 0 \\ x^3 - 2x^2 + x - 1 & \text{se } x \ge 0, \end{cases}$$

$$f(x) = \begin{cases} \frac{2x - x^2}{2x^2 + 1} & \text{se } x < -\frac{1}{2} \\ -x - \frac{4}{3} & \text{se } -\frac{1}{2} \le x < 0 \\ -x^3 + 2x^2 - x + 1 & \text{se } x \ge 0 \end{cases}$$

$$\begin{cases} y' + 2y = \cos x \\ y(0) = \beta \,, \end{cases}$$

$$\begin{cases} y' + 3y = \sin x \\ y(0) = \beta \,, \end{cases}$$

$$\begin{cases} y' - 3y = \cos x \\ y(0) = \beta, \end{cases}$$

$$\begin{cases} y' - 2y = \sin x \\ y(0) = \beta \,, \end{cases}$$