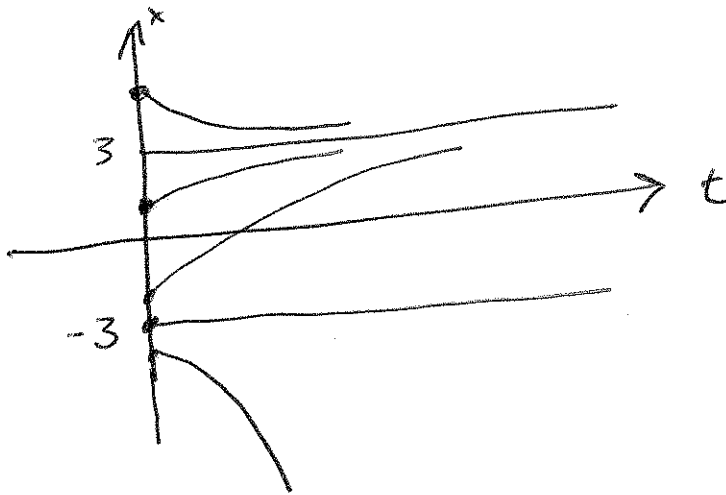
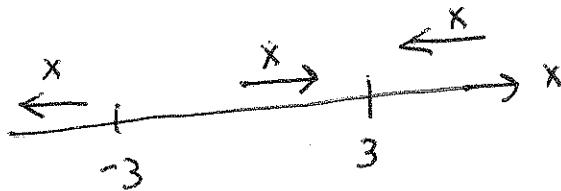


$$3. \quad \frac{dx}{dt} = (3-x)(3+x)$$



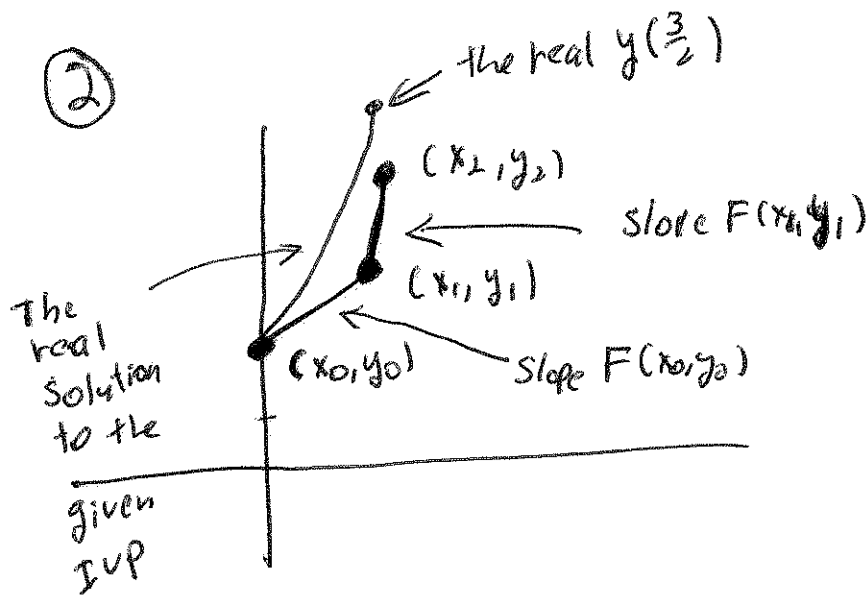
Some solutions of

$$\frac{dx}{dt} = 9 - x^2$$

$$x(0) = x_0$$

The particular question depends on the value of x_0

(2)



$$F(x, y) = 2x + y^3$$

$$(x_0, y_0) = (1, 2)$$

$$x_1 = \frac{5}{4}$$

$$x_2 = \frac{3}{2}$$

We must calculate y_1 and y_2 .

y_2 is our approximation of $y(\frac{3}{2})$.