2) a) Two solutions: $x_1 = 2 \quad y_1 = 2$
$x_2 = -4 \quad y_2 = 8$

Lösungsweg:

Solve Eq1 for y: $y = 0.5x^2$ (*)

Insert it into Eq2 and rearrange; you get a quadratic equation

$0.5x^2 + x - 4 = 0$

with the solutions above for x.

y-values by inserting x-values into (*).

b) Two solutions: $x_1 = -1 \quad y_1 = 1.5$
$x_2 = 4 \quad y_2 = -1$

Lösungsweg:

Solve Eq1 for x: $x = 2 - 2y$ (**)

Insert it into Eq2 and rearrange; you get a quadratic equation

$2y^2 - y - 3 = 0$

with the solutions above for y.

x-values by inserting y-values into (**).