Solving systems by the method of substitution.

Solve the system Eq1: $y=2x$

Eq2: $x+y=3$

1) Take $2x$ from Eq1. and plug it into Eq2: for y.

$x+(2x)=3$ This is the step of substitution.

2) Now you can solve for x.

$3x=3$ Add the x's together.

3) Now we apply the operation of division.

$\frac{3x}{3}=\frac{3}{3}$ Setup the division

$x=1$ Complete the division

4) Now that we know $x=1$, we have to find the corresponding value of y.

$y=2(1)=2$ Replace x with 1 in Eq1.

5) So the final solution is the pint (1,2)