## Answer to Question\#39552-Math - Algebra

Question: $\left\{\begin{array}{l}x+3 y=4 ; \\ 2 x-6 y=4 .\end{array}\right.$
Find the value of $x$ and $y$.
Solution. Let us express $x$ as a function of $y$ from the first equation:

$$
x=4-3 y
$$

We can now substitute this into the second equation:

$$
2(4-3 y)-6 y=4
$$

And find $y$ :

$$
\begin{gathered}
8-6 y-6 y=4 \\
-12 y=-4 \\
y=\frac{1}{3}
\end{gathered}
$$

This also gives us the value of $x$ :

$$
x=4-3 \cdot \frac{1}{3}=4-1=3
$$

Thus, the solution of the given system is the pair of values $x=3, y=\frac{1}{3}$.
Answer. $x=3, y=\frac{1}{3}$.

