$\left\{\begin{array}{c}у=3х\\х+у=4\end{array}\right.$

$\left\{\begin{array}{c}у=3х\\х+3х=4\end{array}\right.$

$\left\{\begin{array}{c}у=3х\\4х=4\end{array}\right.$

$$\left\{\begin{array}{c}у=3х\\х=4 :4\end{array}\right.$$

$$\left\{\begin{array}{c}у=3х\\х=1\end{array}\right.$$

$$\left\{\begin{array}{c}у=3 ·1\\х=1\end{array}\right.$$

$$\left\{\begin{array}{c}у=3\\х=1\end{array}\right.$$

Ответ $\left[х=1; у=3\right]$

$$\left\{\begin{array}{c}3 \left(2х-у\right)=36\\5х+у=2\end{array}\right.$$

$$\left\{\begin{array}{c}6х-3у=36\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}6х-3 (2-5х)=36\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}6х-6+15х=36\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}21х=36+6\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}21х=42\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}х=42 :21\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}х=2\\у=2-5х\end{array}\right.$$

$$\left\{\begin{array}{c}х=2\\у=2-5 ·2\end{array}\right.$$

$$\left\{\begin{array}{c}х=2\\у= -8 \end{array}\right.$$

Ответ: $\left[х=1; у= -8\right]$