Example: Solve the system below using the method of addition.
Eq1.:

$$
5 x=-4 y-7
$$

Eq2.: $\quad 6 x-3 y=15$

1) Transform Eq1. into standard form by move $-4 y$ to the left.

$$
\begin{array}{ll}
5 x+4 y=-7 & \text { Rewrite Eq1. } \\
6 x-3 y=15 & \text { Copy Eq2. }
\end{array}
$$

2) Now we can change the equations further by multiplying.
$3(5 x+4 y)=(3)(-7)$ Multiply Eq1. by the number 3.
$15 x+12 y=-21 \quad$ New Eq1.
$4(6 x-3 y)=4(15) \quad$ Multiply Eq2. by the number 4.
$24 x-12 y=60 \quad$ New Eq2.
3) Now add New Eq1. and New New Eq2.

$$
\begin{aligned}
15 x+12 y+24 x-12 y & =-21+60 \quad 12 y+(-12 y)=0 \\
39 x & =39 \\
x & =1
\end{aligned}
$$

4) Now that we know that $x=1$, we have to find the correspoding value of $y$.
$5(1)=-4 y-7 \quad$ Replace $x$ with 1 in Eq1.
$5=-4 y-7 \quad 5$ times 1 is 5 on the left
$12=-4 y \quad$ Add 7 to both sides to get 12 on the left
$-3=y \quad$ Divide both sides by -4 to get -3 as the value of $y$
5) So the point that solves the system is $(1,-3)$.
