White Dot when

$$
\begin{aligned}
& y=2 x-3 \quad \text { and } \quad x(y+1)=4 \\
& x(2 x-3+1)=4 \\
& x(2 x-2)=4 \\
& 2 x^{2}-2 x=4 \\
& x^{2}-x-2=0 \\
& x=2
\end{aligned}
$$

$(2,1)$ is the white dot
To find Black dot
$y=2 x-3$
$x^{2}-6 x+y^{2}=0$
$x^{2}-6 x+(2 x-3)^{2}=4$
$x^{2}-6 x+4 x^{2}-9=4$
$5 x^{2}-6 x-5=0$
$x=2.32$
$y=1.64$
3

The Grey line
If the grey line is parallel to the black line but above it then it will cut only the white line.
so $y=2 x-1$ could be an equation for the grey line.
This will cut $\quad x(y+1)=4 \quad$ when

$$
\begin{aligned}
& x(2 x-1+1)=4 \\
& 2 x^{2}=4 \\
& x=1.41 \\
& y=2 \times 1.41-3=-0.18
\end{aligned}
$$

Grey dot is at (1.41, -0.18)

