$$
\begin{aligned}
& \text { l. } \left.\binom{x \cdot y_{1}}{4,-3} \quad \begin{array}{l}
\text { 0rigin } \\
x_{2} \\
1,0 \\
1,0
\end{array}\right) \\
& m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}} \\
& m=\frac{0--3}{0-4} \\
& m=\frac{0+3}{0-4} \\
& m=\frac{3}{-4} \\
& \text { 3. } \quad\binom{x_{1} y_{1}}{2,-1}\binom{x_{2} y_{2}}{7.8}
\end{aligned}
$$



$$
\begin{aligned}
& \text {-1LN-1/.7 } \\
& -k+7=-1-7 \\
& -k=-8 \\
& K=8 \\
& \text { \#4. } \quad 2(y-1)=3 x+4 \\
& 2 y(-2)=3 x+4+2 \\
& \frac{2}{2} y=\frac{3}{2} x+\frac{6}{2} \\
& y=\left(\frac{3}{2}\right) x+3 \\
& =\frac{2}{3} \\
& m=\frac{-2}{3} \\
& x, y \text {. }
\end{aligned}
$$

$$
\eta=\frac{9}{5}
$$

\#5. $\left.\quad \begin{array}{l}x_{1} y_{1}, x_{2} y_{2} \\ 5,1\end{array}\right)\left(\begin{array}{l}3 \\ 3\end{array}, 5\right) \quad m=\frac{2}{3}$

$$
\begin{aligned}
& \frac{2}{3}=\frac{5-1}{3 k-5} \\
& \frac{2}{3}=-\frac{4}{3 k-5} \\
& 2(3 k-5 k+12 \\
& 6 K=10=12+10 \\
& \frac{5 k}{6}=\frac{22}{6} \quad k=\frac{11}{3}
\end{aligned}
$$

$\frac{2}{3}$

$$
\begin{aligned}
& y=2 \\
& y=2 \\
& m=\frac{-2}{3} x+3
\end{aligned}
$$

$$
\begin{array}{ccc}
\# 6 . & (-3,4) & (4,0)
\end{array}
$$

$$
\begin{aligned}
& m=\frac{0-4}{4--3} \\
& m=\frac{-4}{4+3} \\
& m=\frac{-4}{7}
\end{aligned}
$$

7. $\quad\left(\begin{array}{ll}x_{1} & y_{1} \\ 3 k_{1} 2\end{array}\right)\left(\begin{array}{ll}x_{2} & y_{2} \\ 5 k_{1} & 6\end{array}\right) \quad m=\frac{-1}{2}$.

$$
\begin{aligned}
m & =\frac{y=-y}{x_{2}-x} \\
\frac{-1}{2} & =\frac{6-2}{5 k-3 k} \\
\frac{-1}{2} & =\frac{4}{2 k} \\
\frac{-2 k}{-2} & =\frac{8}{2} \\
K & =-4
\end{aligned}
$$



$$
\begin{aligned}
& \text { 8. } \left.\quad \begin{array}{l}
x_{1} y_{1} \\
4, m
\end{array}\right)\left(-2 m_{1} 10\right) \\
& m=\frac{x_{2}}{y_{2}-y_{1}} \\
& x_{2}-x_{1} \\
& \frac{-3}{4}=\frac{10-m}{-2 m-4} \\
& -3(-2 m-4)=4(10-m) \\
& 6 m+12=40-4 m \\
& \frac{10 m}{10}=\frac{28}{10}: m=\frac{14}{5}
\end{aligned}
$$

9. $\binom{x_{1} y_{1}}{1,2 K}\binom{x_{2} y_{2}}{-3 K_{12}} \quad m=\frac{-3}{1}$

$$
\begin{aligned}
& \frac{-3}{1}=\frac{2-2 k}{-3 k-1} \\
& -3(-3 k-1)_{3}=(2-2 k) \\
& 9 k(+3)=2(-2 k)^{12 k}
\end{aligned}
$$

$$
\frac{11 K}{11}=\frac{-1}{10}
$$

$$
k=\frac{-1}{11}
$$


12. a)

$$
\begin{gathered}
\frac{3^{* 4}}{4} y+2^{x 4}=x^{x 4} x+2^{x 4} \\
3 y+8=12 x+8^{-8} \\
\frac{3 y}{3}=\frac{12 x+\frac{0}{3}}{3} \\
y=4 x+0
\end{gathered}
$$

Slope: 4

$$
y \text {-int: } 0
$$

$\begin{array}{ll}4 & \text { b) } \begin{array}{l}3(2 y+1)=7 x-7 \\ 8^{-8}\end{array} \\ \begin{array}{ll}6 y+3) & =7 x-7^{-3} \\ 3 & \frac{6 y}{6} y=\frac{7 x}{6}-\frac{10}{6} \\ y & y=\frac{7 x}{6}-\frac{5}{3} \\ \text { Slope: } 7 / 6 \\ & y \text {-int: }-\frac{5}{3}\end{array}\end{array}$

