$$
\begin{aligned}
& 68 . \\
& \left\{\begin{array}{l}
(15 x-.35 y=-5) 100
\end{array}\right.
\end{aligned}
$$

$$
\begin{aligned}
& \{60 x-140 y=-200 \\
& -12 x+25(10)=10 \\
& -60 x+125 y=50 \\
& -12 \times \pm 8_{2} 8=120 \\
& \frac{-15 y}{-15}=\frac{-150}{-15} \\
& \frac{-12 x}{-12}=\frac{-240}{-12} \\
& y=10 \\
& x=20 \\
& (20,10)
\end{aligned}
$$

70. 

$$
\text { 0. } \begin{aligned}
12 b-13 m & =2 \\
(-6 b+6.5 m & =-25) \\
18) 6-13 m n & =2 \\
-12 b+13 m & =-4 \\
\hline 0 & =-2 \\
0 & =0 \text { False }
\end{aligned}
$$

No solutions Infinite
72.

$$
\begin{aligned}
& \left\{\begin{aligned}
6 x-6 y & =25 \\
\frac{3 y}{3} & =\frac{11}{3}
\end{aligned}\right. \\
& y=\frac{11}{3} \\
& 6 x-26\left(\frac{11}{3}\right)=25 \\
& 6 x-22=25 \\
& +22 t=2 \\
& \begin{array}{l}
0-5+\frac{6 x}{6}=\frac{47}{6} \\
6-102 \\
119 .
\end{array} \quad\left(\frac{47}{6}, \frac{11}{6}\right)
\end{aligned}
$$

4. word problems

Geometry Problem
2 angles are supplementary. One
is) 12 (more than 3 times the
second. Find the measure of exch angle.

$$
\begin{aligned}
& x+y=180 \\
& x=12+3 y \\
& 12+3 y+y=180 \\
& y=420 \\
& x=12+3(42) \\
& x=138^{\circ}
\end{aligned}
$$

Mixture Problems
A total of $\$ 12,000$ was invested at $6 \% \& 8 \%$ interest. If the interest earned was $\$ 880$, how mull, was invested at each Tate.


$$
\begin{aligned}
& \left\{\begin{array}{l}
.06 x+.08 y=880 \\
\left(x^{2}+y t=12,000\right)-.06 \\
.06 y+.08 y=880 \\
-.06 x-.06 y=-720 \\
\frac{.02 y}{2}=\frac{160}{.02} \\
y=\$ 8,000 \\
x=\$ 4,000
\end{array}\right.
\end{aligned}
$$

HW: read example \#11 on p. 243

$$
p .24697-108
$$

