a)

$$
\begin{aligned}
& \text { 6. Solve the system of equations: } \\
& \begin{array}{ll}
\text { a) }
\end{array} \begin{cases}* y=(2 x-3) & 2 x+3(2 x-3)=23 \\
2 x+3(y)=23 & 2 x+6 x-9=23\end{cases} \\
& y=2(4)-3 \\
& =8-3 \\
& y
\end{aligned}
$$

7. Factor each expression:
a) $4 x^{2}-49=(2 x+7)(2 x-7)=4 x^{2}-4 x+4$ - -49
b)

$$
\begin{aligned}
& 4 x^{3}+8 x^{2}-32 x=4 x\left(x^{2}+2 x-8\right)^{1000} \\
& a c=-366_{\text {- }}^{\text {MuLTi }}=4 x(x+4)(x-2) \\
& 6 x^{2}-5 x^{-200}-6=6 x^{2}-9 x+4 x-6 \\
& =3 x(2 x-3)+2(2 \underline{x}-3) \\
& =(2 x-3)(3 x+2)
\end{aligned}
$$

c)

