For practise only. Not to be submitted.

1. Solve each of the following equations.
(a) $\frac{3}{2} x-\frac{1}{3}=\frac{5}{6}$
(b) $x-1=1-x$
(c) $\frac{1}{4}(x-6)=-\frac{1}{2}(2 x+3)$
(d) $1-5(x-1)=3(x+4)-2 x$
2. Sketch the graph of each of the following without constructing a table of values. Label all important points. What is the slope of each line?
(a) $f(x)=2-x$
(b) $2 x-3 y-12=0$
3. A line passes through the point $\left(\frac{1}{2},-5\right)$. Find an equation of this line if it
(a) is horizontal
(b) has slope $m=4$
4. Find an equation of the line passing through the points $(2,-6)$ and $(-1,3)$.
5. The line $\ell_{0}$ has equation $3 x+2 y=-1$. Find an equation of the line $\ell$ passing through the point $(-6,5)$ which is
(a) parallel to the line $\ell_{0}$
(b) perpendicular to the line $\ell_{0}$
