**Function: inverse function**

1. Find $f^{-1}$ in similar form for each of the following one-one function
2. f(x)=2x-2 (b) f(x)=$\frac{3}{x-1},x\ne 1$

(c) f(x)=$\frac{2x}{x-2},x\ne 2$ (d) f(x)=$\frac{2x+3}{2x-1},x\ne \frac{1}{2}$

2. A function is defined by f: x$\rightarrow \frac{2x+3}{2x-1}, x\ne \frac{1}{2}$

 (a) find $f^{-1}$(-1) and $f^{-1}(1)$

 (b) find the value of x for which 4$f^{-1}\left(x\right)=x$

1. For the function defined by f:$ \rightarrow \frac{a}{x-1}+b$, state the value of x for which f is not defined. Given that f(2)=3 and f(3)=2,
2. Find the value of a and b
3. Show that f(x)=$ f^{-1}(x)$
4. A function is defined by f$ :x\rightarrow \frac{a}{x-1}, x\ne 1$
5. Find $ f^{-1}$ in similar form
6. If $f^{-1}\left(2a\right)+f\left(a\right)=1$, find the value of a
7. A function is defined by $f: x\rightarrow \frac{2x+2}{x-2}, x\ne 2$
8. Find $f^{-1}(3)$
9. Given that $f^{-1}\left(p\right)=kp$, express k in terms of p