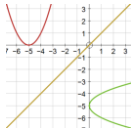
Relationship	$f: x \mapsto (x+5)^2$	$f: x \mapsto 5sinx$	$f: x \mapsto \sqrt{x^2+5}$	$f: x \mapsto \frac{5}{x-5}$	$f: x \mapsto \frac{e^x}{x}$
Domain	$-5 \leq x \leq 5$	$0 \leq x \leq 2\pi$	$-5 \leq x \leq 5$	$x \neq 5$	?
Range = ?					
Is one to one?					
If not one to one, how to adapt to make one to one?					
Is a function?					
If not a function, why not?					
$f^{-1}(x) = ?$					
Solve $f(x) = f^{-1}(x)$					

How many graphs will you sketch?

Relationship	$f: x \mapsto (x+5)^2$	$f: x \mapsto 5sinx$	$f: x \mapsto \sqrt{x^2+5}$	$f: x \mapsto \frac{5}{x-5}$	$f: x \mapsto \frac{e^x}{x}$
Domain	$-5 \leq x \leq 5$	$0 \leq x \leq 2\pi$	$-5 \leq x \leq 5$	$x \neq 5$	?
Range = ?	$0 \leq f(x) \leq 100$	$-5 \leq f(x) \leq 5$	$f(x)$	$f(x) \neq 0$	$f(x)$
Is one to one?	Yes	No	No	Yes	
If not one to one, how to adapt to make one to one?	-	Domain: $\frac{\pi}{2} \leq x \leq \frac{3\pi}{2}$ Or $-\frac{\pi}{2} \leq x \leq \frac{\pi}{2}$	Domain: $0 \leq x \leq 5$	-	
Is a function?	Yes	No	No	Yes	
If not a function, why not?	-	Not one-one	Not one-one	The undefined value $x = 5$ is already removed from domain	
$f^{-1}(x) = ?$	$f^{-1}(x) = \sqrt{x} - 5$	$f^{-1}(x) = sin^{-1}\left(\frac{x}{5}\right)$	$f^{-1}(x) = \sqrt{x^2-5}$	$f^{-1}(x) = \frac{5}{y} + 5 = \frac{5y+5}{y}$	$f^{-1}(x) = ???$
Solve $f(x) = f^{-1}(x)$	 No solutions	$x = 0$	No solutions	$x = \frac{5 \pm 3\sqrt{5}}{2}$	

How many graphs did you sketch?