6.7 Inverse Relations Day 3 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Graph the functions and state the domain and range. Then find the inverse relation of the functions and state whether or not the inverse is a function. Find the inverse relation’s domain and range.

Inverse relation:

a. 

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

Inverse relation:

b. 

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

Inverse relation:

c. $f\left(x\right)=\sqrt{x-3}$

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

Inverse relation:

d. $f\left(x\right)=3x-6$

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

Inverse relation:

e. $f\left(x\right)=\sqrt{x+4}$

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

Inverse relation:

f. $f\left(x\right)=2x^{2}-8$

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

g. $f\left(x\right)=\sqrt{x+6}$

Inverse relation:

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$

Inverse relation:

h. $f\left(x\right)=(x-4)^{2}$

x y

x y

$$f\left(x\right)=\left\{\frac{domain= }{range= }\right\} f^{-1}\left(x\right)=\left\{\frac{domain= }{range= }\right\}$$



 



   



 

 

 

