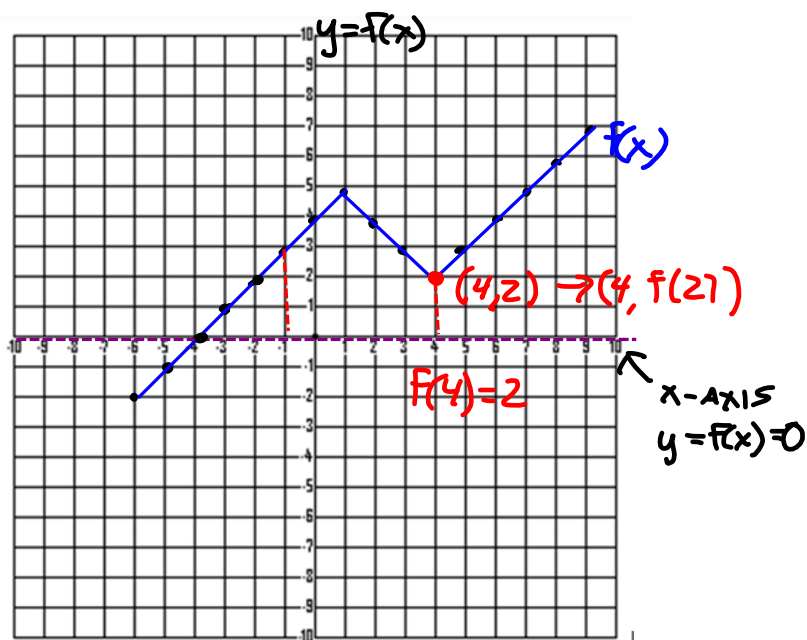


The Math Dawg

Intro to Interpreting Functions from Graphs



Graphical Interpretation of $f(x)$

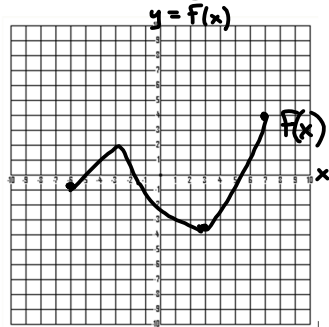


$f(x)$ REPRESENTS THE HEIGHT OF THE GRAPH WITH RESPECT TO THE X-AXIS ($y=f(x)=0$)

Domain and Range

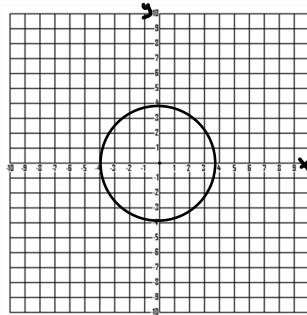
DOMAIN: ALL THE POSSIBLE x VALUES THAT A FUNCTION OR RELATION CAN TAKE

RANGE: ALL THE POSSIBLE y VALUES THAT A FUNCTION OR RELATION CAN TAKE



DOMAIN:

RANGE:

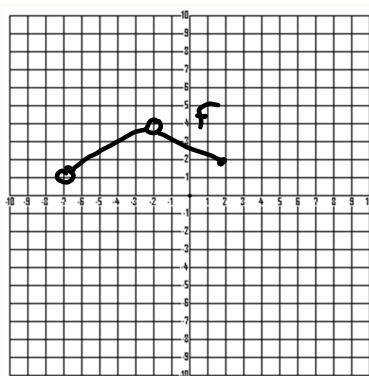


DOMAIN:

RANGE:

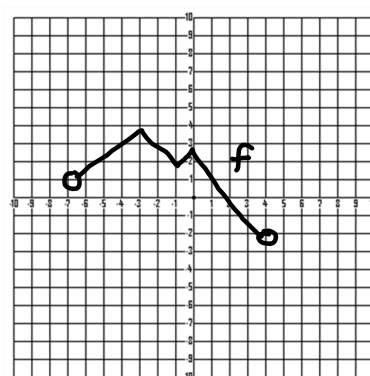
Domain and Range

EXAMPLE: GIVE THE DOMAIN AND RANGE OF THE GRAPHS BELOW.



DOMAIN:

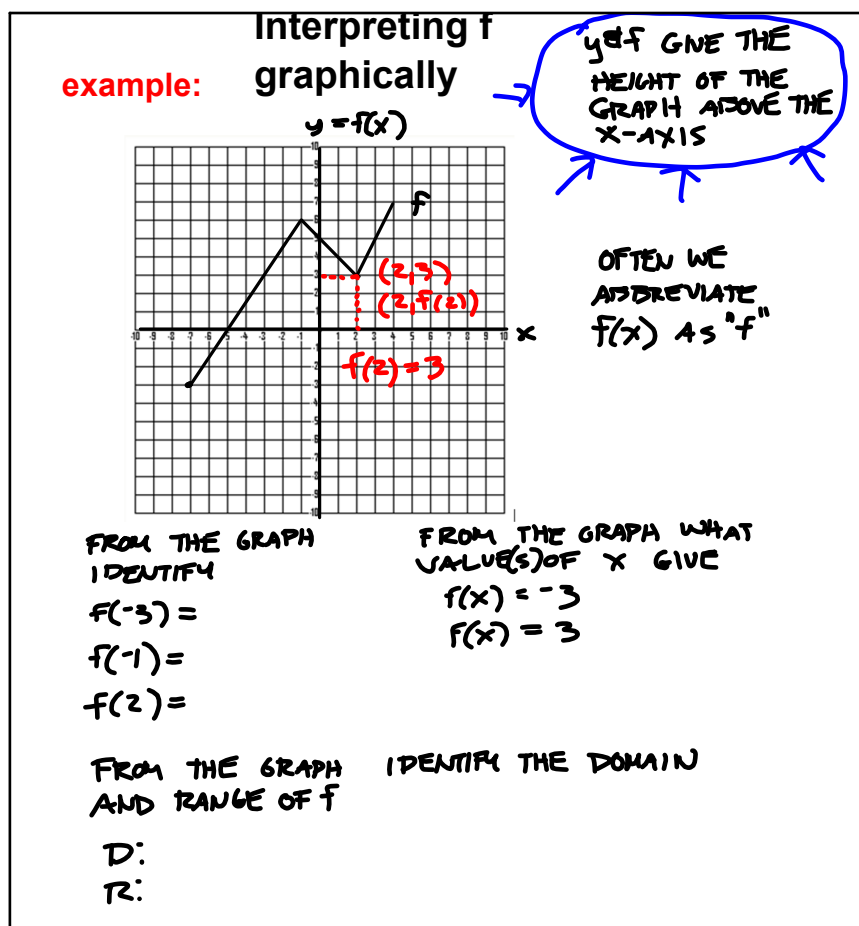
RANGE:



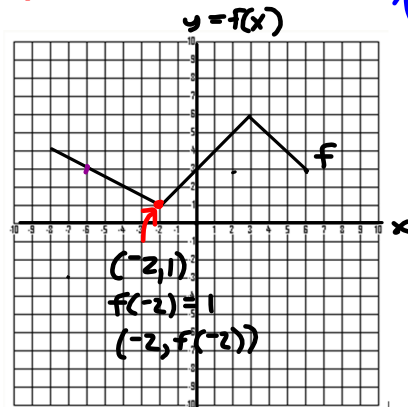
DOMAIN:

RANGE:

Go to www.desmos.com and open the graphing calculator. Write, graph, and evaluate some functions using function notation.



example: Interpreting f graphically



YET GIVE THE HEIGHT OF THE GRAPH ABOVE THE X-AXIS

OFTEN WE ABBREVIATE $f(x)$ AS "f"

FROM THE GRAPH IDENTIFY
 $f(-6) =$
 $f(0) =$
 $f(7) =$

FROM THE GRAPH WHAT VALUE(S) OF x GIVE
 $f(x) = 1$
 $f(x) = 4$

FROM THE GRAPH IDENTIFY THE DOMAIN AND RANGE OF f

D:
R: