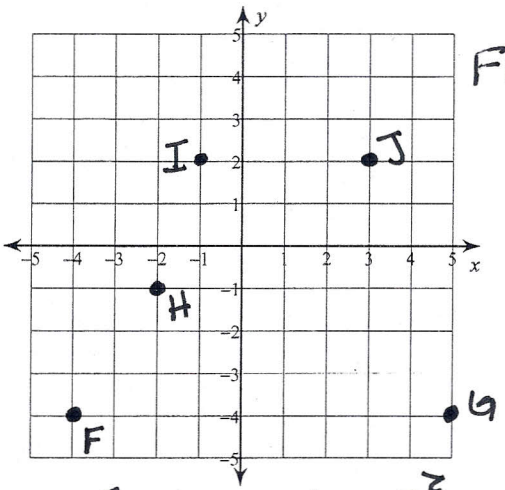
Secondary Math Name_____

Module 3 Review Part 1

Date_____ Period____

For each of the following relations, plot the points, state the domain and range, and determine if the relation is a function..

1) $F(-4,-4)$ $G(5,-4)$ $H(-2,-1)$ $I(-1,2)$ $J(3,2)$

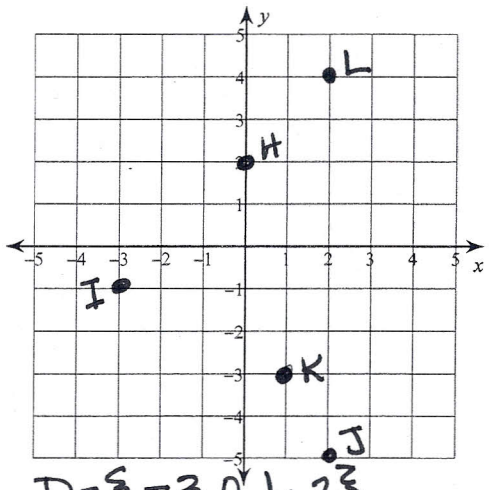


Function

$D=\{-4,-2,-1,3,5\}$

$R=\{-4,-1,2\}$

2) $H(0,2)$ $I(-3,-1)$ $J(2,-5)$ $K(1,-3)$ $L(2,4)$



$D=\{-3,0,1,2\}$

$R=\{-5,-3,-1,2,4\}$

NOT a Function

Evaluate each function.

3) $k(x)=2x-2$; Find $k(-10)$

$K(-10)=2(-10)-2$

$K(-10)=-20-2$

$K(-10)=\boxed{-22}$

4) $f(n)=3n+4$; Find $f(-9)$

$f(-9)=3(-9)+4$

$f(-9)=-27+4$

$f(-9)=\boxed{-23}$

5) $p(x)=x+5$; Find $p(7)$

$p(7)=7+5$

$p(7)=\boxed{12}$

6) $f(t)=3t+2$; Find $f(6)$

$f(6)=3\cdot 6+2$

$f(6)=18+2$

$f(6)=\boxed{20}$

Perform the indicated operation.

7) $f(x)=3x-2$

$g(x)=4x-2$

Find $f(x)\div g(x)$

$\frac{f(x)}{g(x)}=\boxed{\frac{3x-2}{4x-2}}$

8) $f(x)=x-5$

$g(x)=-3x-5$

Find $f(x)-g(x)$ $= x-5-(-3x-5)$

$= x-5+3x+5$

$=\boxed{4x}$

9) $g(n)=3n+2$

$f(n)=3n$

Find $g(n)\cdot f(n)$ $=(3n+2)(3n)$

$=\boxed{9n^2+6n}$

10) $h(x)=2x+1$

$g(x)=2x-4$

Find $h(x)+g(x)$ $=2x+1+2x-4$

$=\boxed{4x-3}$