

P. 228 #1-3, 5-10 homework answers

1. a $h(-2)=1$, $h(0)=-1$, $h(2)=3$, $h(3)=4$

b. domain $[-3, 4]$ range $[-1, 4]$

2. $g(-4)=3$ $g(-2)=2$ $g(0)=-2$ $g(2)=1$ $g(4)=0$

domain $[-4, 4]$ range $[-2, 3]$

3. a) $f(0)$ b) $g(-3)$ c) -2 and 2

5. a) yes b) no c) yes d) no

6. a) no b) yes c) yes d) no

7. yes dom: $[-3, 2]$ range $[-2, 2]$ incr. $(-2, 0)$ dec. $[-3, -2) \cup (0, 2]$

8. no dom $[-3, 3]$ range $[-1, 1]$

9. no dom $[-1, 3]$ range $[-3, 3]$

10. yes dom $[-3, 2]$ range $[-2] \cup (0, 3]$

incr. $(-1, 2]$ decr: never constant: $[-3, -1]$