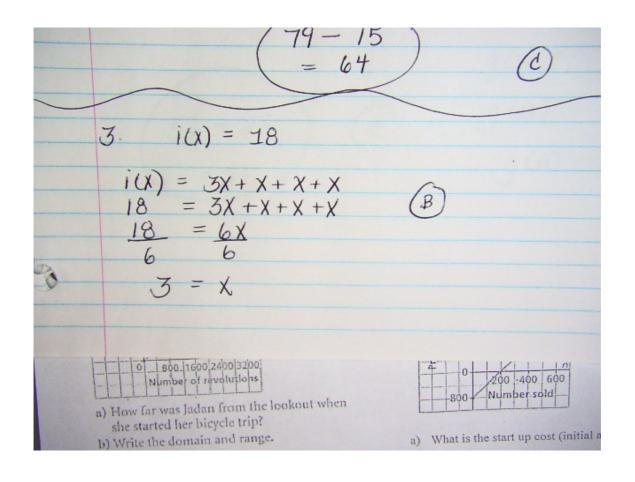
1.
$$i(g(3))$$

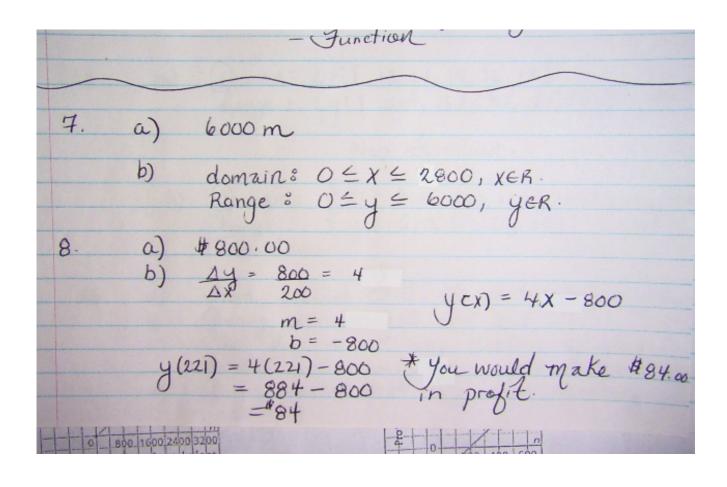
 $g(3) = 4(3) - 2$
 $g(3) = 12 - 2$
 $g(3) = 10$
 $g(3) = 5$
2. $h(8) - g(8)$
 $h(8) = 3(8-5)^2 + 4$
 $h(8) = 3(5)^3 + 4$
 $h(8) = 3(35) + 4$
 $h(8) = 3(35) + 4$
 $h(8) = 75 + 4$
 $h(8) = 79$
 $g(8) = 32 - 2$
 $g(8) = 52 - 2$



4.
$$h(x) = 151$$

 $3(x-3)^{2}+4 = h(x)$
 $3(x-3)^{2}+4 = 151-4$
 $3(x-3)^{2} = 147$
 $3(x-3)^{2} = 49$
 $x-3 = 7+3$
 $x = 10$
5. $h(t) - g(iu)$

6. a) Domain: XER Range: y=2, yer. b) Domain: -4 = x = 4, xer Range: 2=y=5, yer.
b) Domain: -4 = x = 4, x er Range: 2= y =5, y er.
- Non Function (c) Domain: -3=x=4, xeI Range: -1=y=6, yeI - Function.
(d) Domain: X≥0, XER. Ronge: y≥3, yer.
- Function. (e) Domain: X≥0, XER Range: y = 6, yer.
- Junetion
F) Domain: XER. Range: YER - Function



8.	c) $y(x) = 4x - 800$ 1200 = 4x - 800 * you would need $\frac{2000}{4} = \frac{4x}{4}$ to sett 500 baseball 500 = x
9.	a) Non function b) Function c) Function d) Non Function.
10	a) Graph A b) many different answers.

	U
11. 0	Domain: {x: 13, 14, 15, 16, 17} Hange: {y: 159, 161, 165, 168, 170, 174, 176}
	Non Function.
	b) Domain: {x: 8:00, 10:00, 12:00, 14:00, 16:00, 18:00} Range: {y: 2, 5, 10, 20, 25} Function
12. a)	From section C-D. It lasted 2 minutes. During sections A-B and E-F.
()	During sections A-B and E-F. The Bus driver was putting on their brakes and coming to a gradual stop. During section A-B they were travelling tom/s.
d	During section AB they were travelling
0 800 160	0 2400 3200

13.	a) (b) 1 c) 9	During section 15 minutes. 105h was 4km 30 minutes.	B-C.	e after
	(30 minutes.	U	U