4.1.4
HWK

4-37)

a)

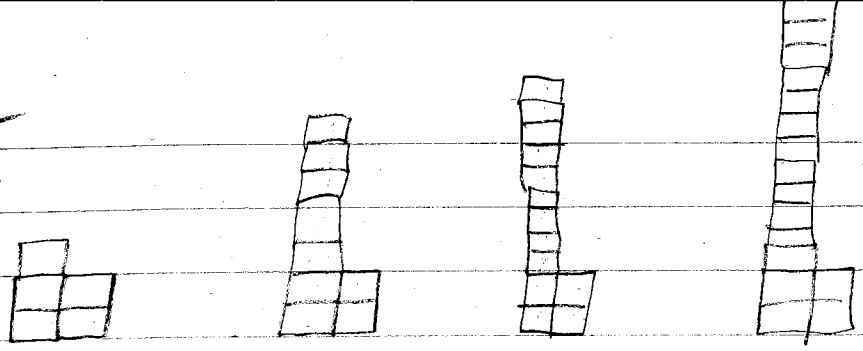

fig 0 fig 1 fig 2 fig 3

b) growth factor is 4

fig #	# of tiles	
0	5	↓ +4
1	9	↓ +4
2	13	↓ +4
3	17	

c) $y = 4x + 5$

3-38)

Fig 0 has 7 tiles.
Fig 1 has 9 tiles.
Growth factor is 2
Rule is $y = 2x + 7$

3-39)

a) $3x - 6 + 1 = -2x - 5 + 5x$

$3x - 5 = 3x - 5$

All numbers

b) $-2x - 5 = 2 - 4x - (x - 1)$

$-2x - 5 = 2 - 4x - x + 1$

$-2x - 5 = 3 - 5x$

$+5 \quad +5$

$-2x = 8 - 5x$

$+5x \quad +5x$

$\frac{3x}{3} = \frac{8}{3} \quad x = \frac{8}{3}$

4-40) $5 - 2x = -1$

$-5 \qquad -5$

$-2x = -6$

$\frac{-2x}{-2} = \frac{-6}{-2}$

$x = 3$

4-41)

(in) x	2	10	5	-5	4	-3	1.5	50	x
(out) y	4	28	13	-17	10	-11	2.5	148	$3x-2$

multiply x by 3 and subtract 2

x	y
-5	-17
-3	-11
1.5	2.5
2	4
4	10
5	13
10	28
50	148
x	$3x-2$