

3.2.2.

HWK

3-84)

a.)

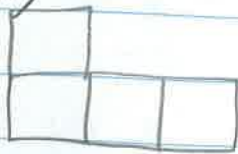


Figure 1

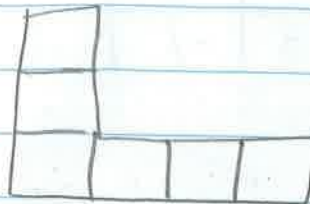


Figure 2

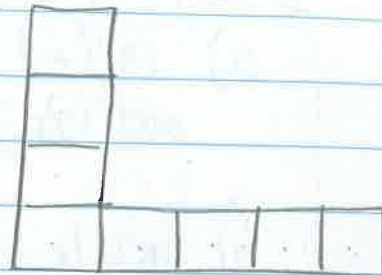


Figure 3



Figure 0

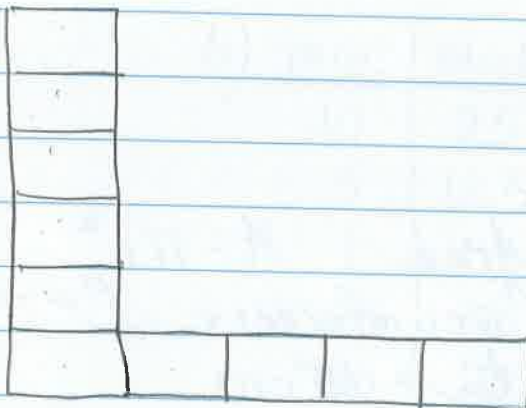
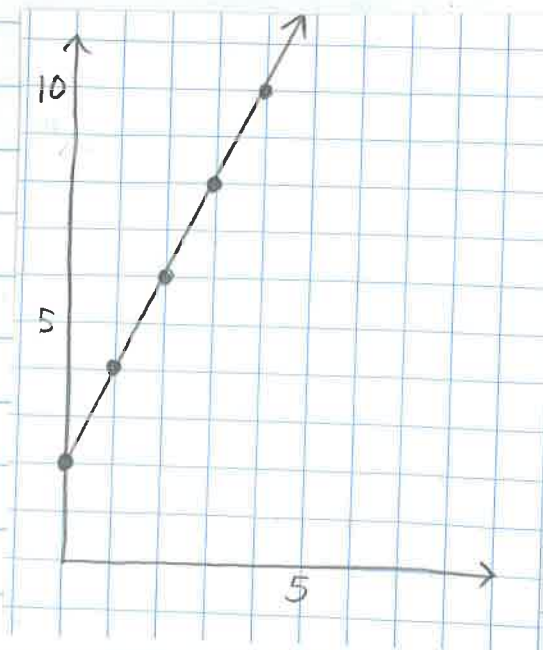


Figure 4

Figure #	# tiles
x	y
0	2
1	4
2	6
3	8
4	10
5	12

rule: $y = 2x + 2$.

b.) (5, 12)
follows the
rule and
pattern in
the table
above!



3-85)

a) in (x)	-1	0	1	2	3
out (y)	-3	-1	1	3	5

$\underbrace{\hspace{1.5cm}}_2 \quad \underbrace{\hspace{1.5cm}}_2 \quad \underbrace{\hspace{1.5cm}}_2 \quad \underbrace{\hspace{1.5cm}}_2$

b) rule:

$$y = 2x - 1$$

x	y
-1	-3
0	-1
1	1
2	3
3	5

>2
 >2
 >2
 >2
 >2

3-86) Area $A = \pi r^2$

Circumference $C = \pi d$

diameter = 15 cm

$$\begin{aligned}
 A &= \pi r^2 \\
 &= (3.14)(7.5)^2 \\
 &= (3.14)(56.25) \\
 &= 176.6 \text{ cm}^2
 \end{aligned}$$

$$\begin{aligned}
 C &= \pi d \\
 &= (3.14)(15) \\
 &= 47.1 \text{ cm}
 \end{aligned}$$

3-87)

a) $3x - 7 + 9 - 2x = x + 2$

$$x + 2 = x + 2$$

ANY NUMBER

b) $-2m + 8 + m + 1 = 0$

$$-m + 9 = 0$$

$$-9 \quad -9$$

$$(-1) \cdot (-m) = (-9) \cdot (-1)$$

$$m = 9$$

c) $2 = x + 6 - 2x$
 $-6 = -6$
 $-4 = x - 2x$
 $(-1)(-4) = -x(-1)$
 $4 = x$

d) $0.5p = p + 5$
 $-1p \quad -1p$
 $\underline{-0.5p = 5}$
 $-0.5 \quad -0.5$
 $p = (-10)$

3-88) "x" "y"

a) # of Books	Days
2	10
10	50
12	60
3	15
1	5
$\frac{1}{5}$	1
73	365

$y = 5x$

b) min.	Blocks
10	25
5	12.5
1	2.5
20	50
30	75
0	0
14	35

$\frac{10}{25} = \frac{5}{12.5}$

$\frac{10}{25} = \frac{1}{2.5}$

$\frac{10}{25} = \frac{x}{35}$

c) miles	Gallons
280	14
140	7
420	21
20	1
100	5
1000	50
350	17.5