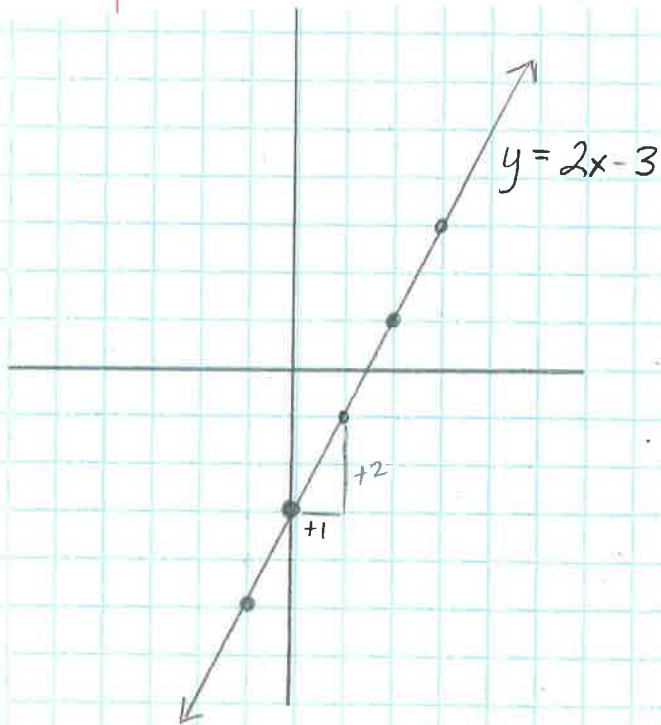
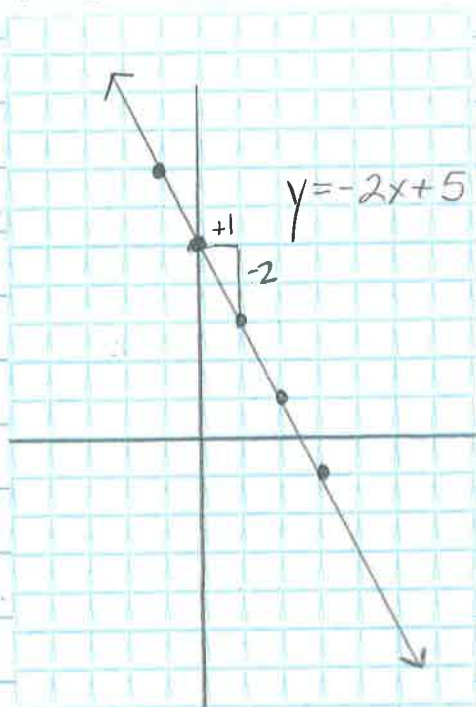


4.1.6 HWK
4-59

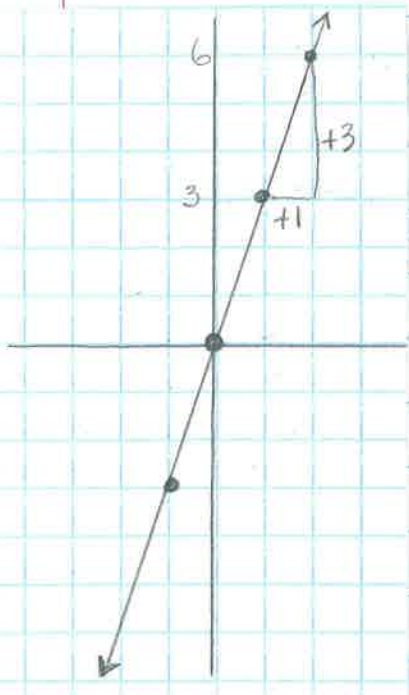
a) $y = 2x - 3$



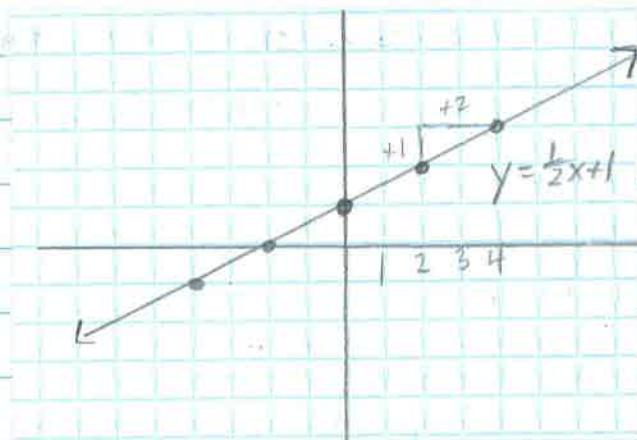
b) $y = -2x + 5$



c) $y = 3x$



d) $y = \frac{1}{2}x + 1$



4-60)

a) A and C have 0 tiles
B has 30 tiles

b) C grows the quickest at 10 tiles per figure
It is the steepest line

c) Figure 2. The lines intersect at (2, 20)

d) $y = -5x + 30$

4-61) $y = 2x + 5$ means y is twice x increased by 5.

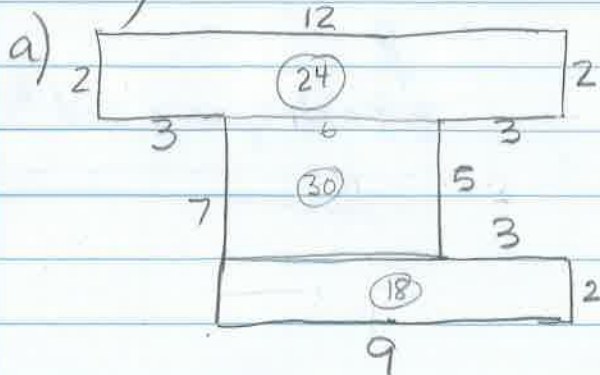
$y = 6x + 5$ means y is six times x increased by 5.

a) Fig. 0 has 5 tiles for both equations.

b) $y = 6x + 5$ grows the quickest.

" m " is greater (6 is greater than 2)
the growth factor is larger

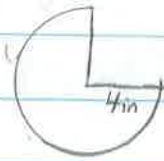
4-62)



Perimeter = 48 cm

Area = 24 + 30 + 18 = 72 cm²

b)



$$\begin{aligned}
 A &= \pi r^2 \\
 &= \pi \cdot 4^2 \\
 &= \pi \cdot 16 \\
 &= 50.27 \text{ in}^2 \div 4 = 12.57
 \end{aligned}$$

$$\begin{array}{r}
 \text{Area } 50.27 \\
 - 12.57 \\
 \hline
 \underline{37.7 \text{ in}^2}
 \end{array}$$

Perimeter

$$\begin{aligned}
 C &= \pi d \\
 &= \pi \cdot 8 \\
 &= 25.13 \div 4 = 6.28
 \end{aligned}$$

$$\begin{array}{r}
 - 25.13 \\
 - 6.28 \\
 \hline
 18.85 + 4 + 4 = 26.85 \text{ in}
 \end{array}$$

the 2 radius lengths

4-63)

1 1/2 tsp. cinnamon for 2 doz.

for 13 doz ~ how much cinnamon?

3 tsp = 1 Tablespoon

$$\begin{array}{r}
 \frac{1.5 \text{ tsp}}{2 \text{ doz.}} = \frac{9.75 \text{ tsp}}{13 \text{ doz.}} \\
 \xrightarrow{\times 6.5}
 \end{array}$$

9 3/4 tsp. for 13 doz.

3 tablespoons and 3/4 tsp.