

4-24 learning hog - see toolkit

4.1.3

HWK

4-25)

a)



Figure 0



Figure 4

Fig. #	# of tiles
0	3
1	5
2	7
3	9
4	11

c) $y = 2x + 3$

tiles added each time

tiles in Fig. 0

4-26) $A = \pi r^2$
 $\frac{78.5}{3.14} = \frac{3.14 \cdot r^2}{3.14}$

$$25 = r^2$$

$$\sqrt{25} = \sqrt{r^2} \quad 5 \text{ cm}$$

$$5 = r$$

4-27) a) $\begin{array}{r} -2 + 2x \\ + 2 \end{array} = \begin{array}{r} -x + 2 + x \\ + 2 \end{array}$

$$2x = -x + 4 + x$$

$$\frac{2x}{2} = \frac{4}{2}$$

$$x = 2$$

$$\begin{array}{r}
 b) \quad 2 - 3x = x + 2 \\
 \underline{-2 \qquad \qquad -2} \\
 -3x = x \\
 \underline{-x \quad -x} \\
 -4x = 0 \\
 x = 0
 \end{array}$$

$$\begin{array}{r}
 2 - 3x = x + 2 \\
 \underline{-x \quad -x} \\
 2 - 4x = 2 \\
 \underline{-2 \quad -2} \\
 -4x = 0 \\
 x = 0
 \end{array}$$

4-28)

(x) in	-3	-2	-1	0	1	2	3
(y) out	-2.5	-2	-1.5	-1	-0.5	0	0.5

4-29)

$$\frac{100 \text{ miles}}{4 \text{ gal}} = \frac{3000 \text{ miles}}{x}$$

$$\frac{12000}{100} = \frac{100x}{100}$$

$$120 \text{ gal} = x$$

$$\frac{100 \text{ miles}}{4 \text{ gal}} = \boxed{\frac{25 \text{ miles}}{1 \text{ gal}}} \quad \underline{\underline{\text{unit rate}}}$$