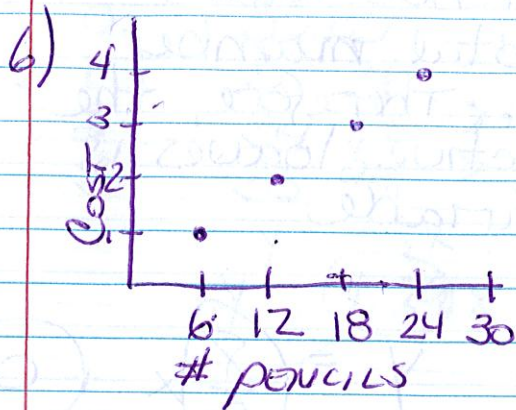


Pg 250-257 6, 10, 12, 14, 20, 22, 24, 26, 28



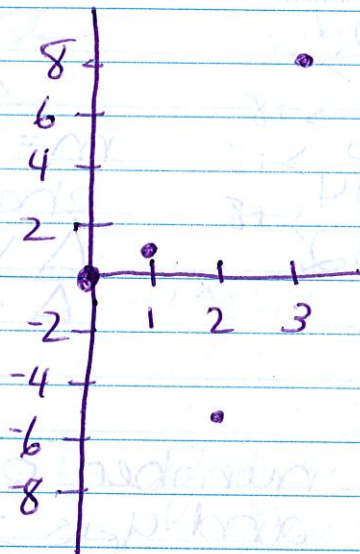
pencils cost

x	y
6	1
12	2
18	3
24	4
30	5

LINEAR

10.

x	y
0	0
1	1
2	-5
3	8



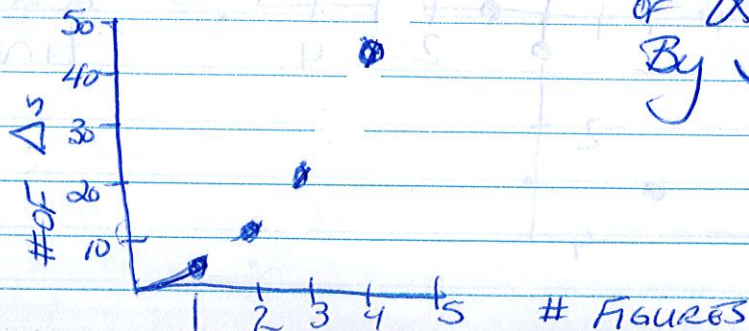
NON LINEAR

12.

x	y	ORDERED PAIR
1	3	1, 3
2	12	2, 12
3	27	3, 27
4	48	4, 48
5	75	5, 75

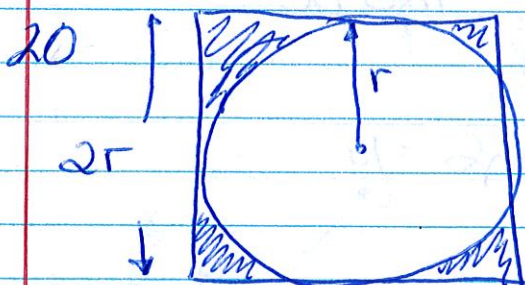
$$y = 3x^2$$

SQUARE VALUE
OF X AND MULTIPLE
BY 3.



$$14 \left(1, \frac{2}{3}\right) \left(2, \frac{4}{9}\right) \left(3, \frac{8}{27}\right), \left(4, \frac{16}{81}\right) \left(5, \frac{32}{243}\right)$$

x	y
1	$\frac{2}{3}$
2	$\frac{4}{9}$
3	$\frac{8}{27}$
4	$\frac{16}{81}$
5	$\frac{32}{243}$

$$y = \left(\frac{2}{3}\right)^x$$


Area for square

$$A = s^2$$

$$= (2r)^2$$

$$= 4r^2$$

Area for circle

$$A = \pi r^2$$

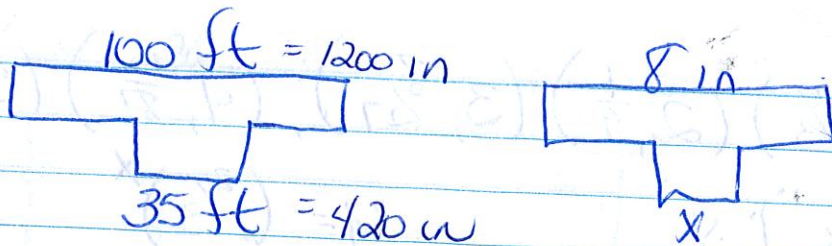
AREA FOR SHADED

AREA OF SQUARE - AREA OF CIRCLE

$$4r^2 - \pi r^2$$

22 NONLINEAR, IF THE FUNCTION WERE LINEAR THEN THERE WOULD BE A VALUE FOR x FOR WHICH THE VALUE OF y WAS LESS THAN 1

24



You have to get your units the same.

$$\frac{100 \text{ ft}}{1} \mid \frac{12 \text{ in}}{1 \text{ ft}} = 1200 \text{ in}$$

$$\frac{35 \text{ ft}}{1} \mid \frac{12 \text{ in}}{1 \text{ ft}} = 420 \text{ in}$$

Set up a proportion

$$\frac{1200}{420} = \frac{8}{x}$$

$$\begin{aligned} 1200x &= 3360 \\ 1200 &\overline{) 3360} \\ x &= 2.8 \end{aligned}$$

G

26.

x	0	1	2	3
y	3	5	7	9

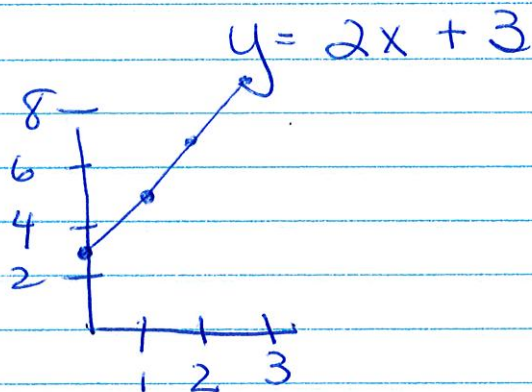
x	y
0	3
1	5
2	7
3	9

THE VALUE OF y IS 3
MORE THAN TWICE X

$$y = mx + b$$

$$m = \text{rate of change} = \frac{\Delta y}{\Delta x} = \frac{2}{1}$$

b = y intercept when x=0 y=intercept



28 $x = -3$ $x = 0$ $x = 2.5$

$$x = -3 \quad \begin{array}{l} 1 + 4x \\ 1 + 4(-3) \\ 1 - 12 \\ \boxed{-11} \end{array}$$

$$x = 2.5 \quad \begin{array}{l} 1 + 4x \\ 1 + 4(2.5) \\ 1 + 10.0 \\ \boxed{11} \end{array}$$

$$x = 0 \quad \begin{array}{l} 1 + 4(0) \\ 1 + 0 \\ \boxed{1} \end{array}$$