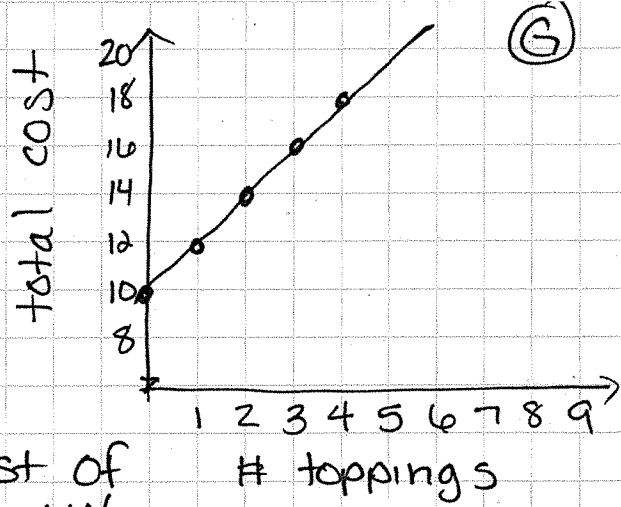


① $y = 2x + 10$
 (E)

B.

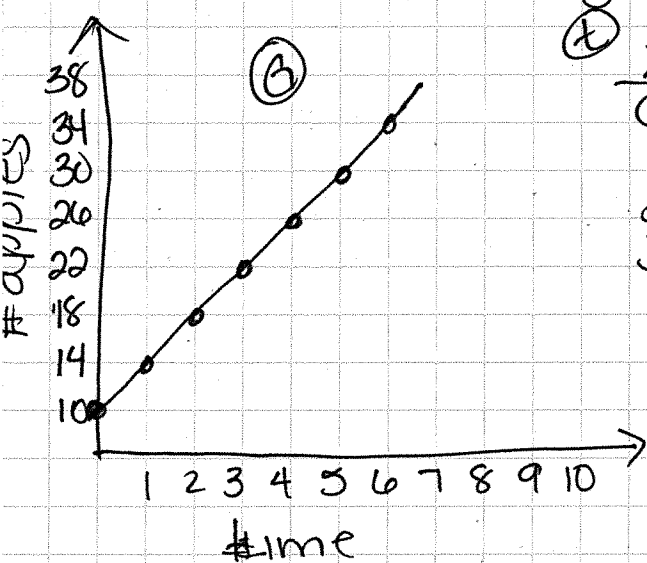
X	Y
0	10
1	12
2	14
3	16
4	18



b. $0 \leq x \leq 10$
 $0 \leq y \leq 30$

c. 10 the cost of a pizza w/ no toppings

2. $4x + 10 = y$



(E)

$y = 4x + 10$

(D)

x	y
0	10
1	14
2	18
3	22
4	26
5	30

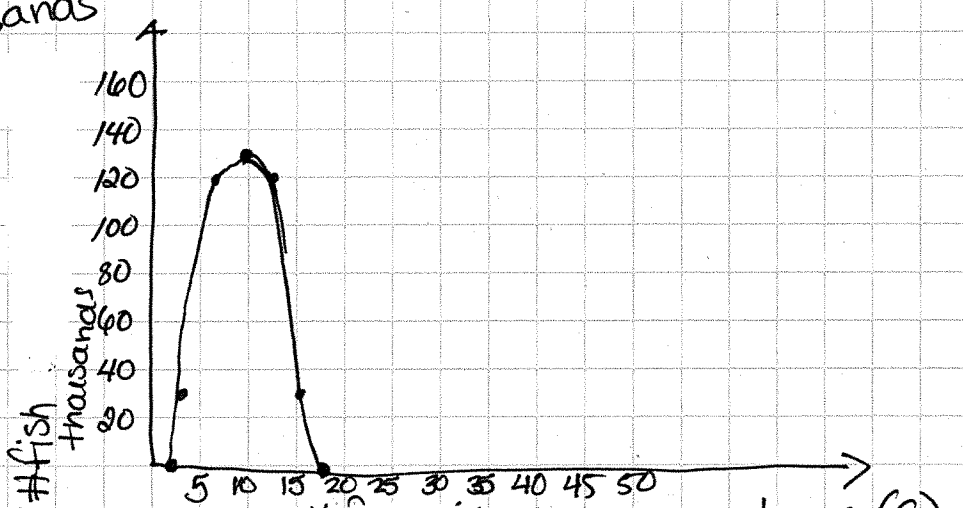
(S) Shalan is making an apple pie. She can peel apples at a rate of 4 apples per minute. She already has 10 apples peeled. Write an equation to model this situation.

b. ~~max~~ $0 \leq x \leq 10$
~~min~~ $10 \leq y \leq 50$

3. a. temperature of the water

b.

X	Y (in thousands)
2	0
18	0
10	128
3	30
8	120



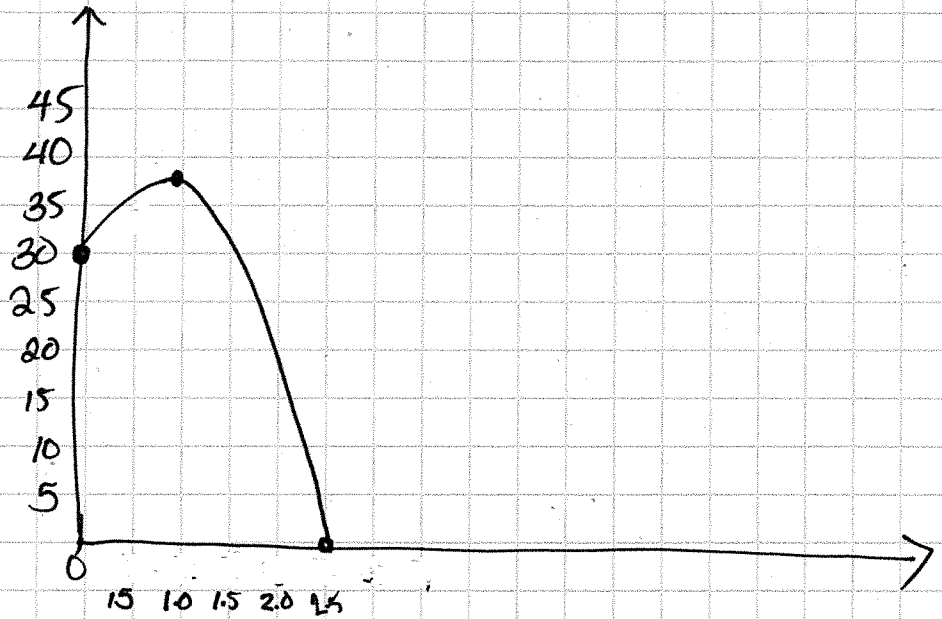
4.

$$h(t) = -16t^2 + 20t + 30$$

a.

t	h(t)
0	30
1	34
2	6
2.13	0
1.625	36.25

height



time (s)

b. The max height of the book is 36.25 feet.

c. 2.13 seconds for the book to hit the ground

d. $0 \leq x \leq 2.13$

e. The starting height of the book.

Linear
a.

5. $-\infty < x < \infty$
 $-\infty < y < \infty$

b.
 $D: (-\infty, \infty)$
 $R: (-\infty, \infty)$

c.
 $b = 5$

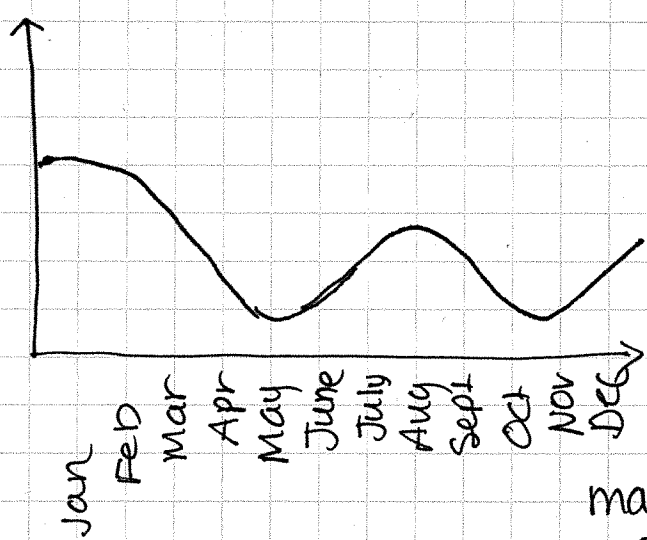
d. 7

a. $0 \leq x \leq 6.25$
 $-1 \leq y \leq 1$

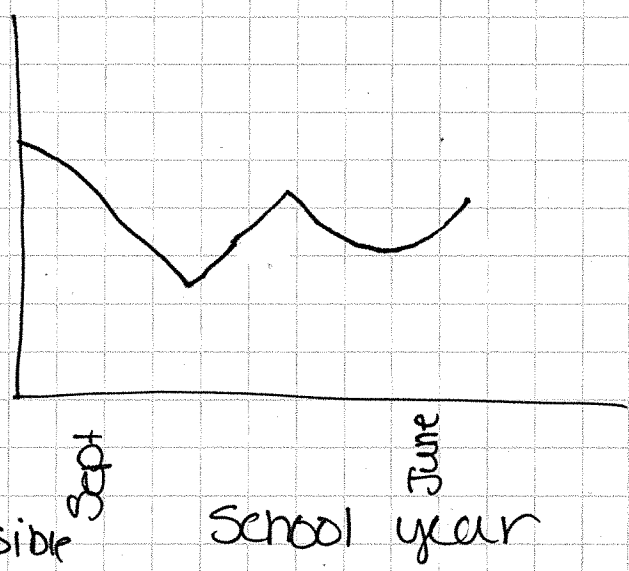
b. $[0, 6.25]$
 $[1, 1]$

c. $b = 0$
d. ≤ 8

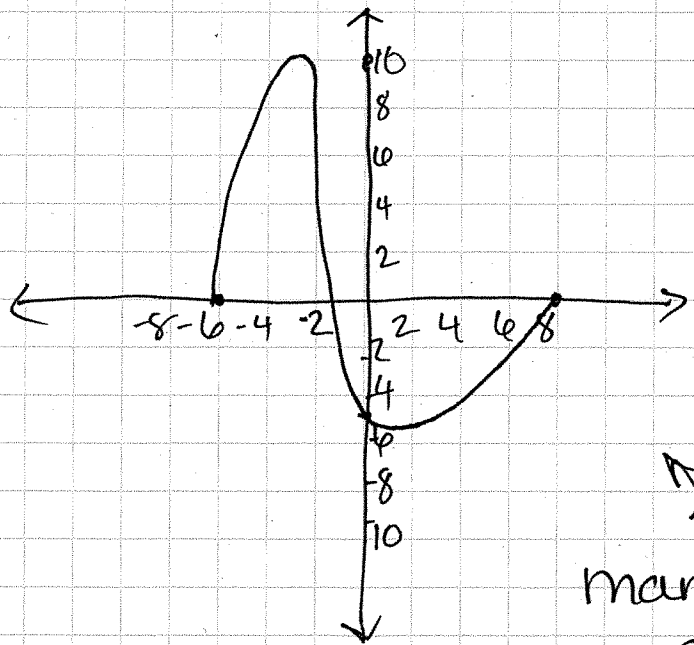
energy use



Motivation



many possible solutions



many possible solutions

