3278.77

1830.85

+3278,77

\$4726.69

1447,92

prob more

is the Indep var

so it goes

DLUTIONS

## 10

## Tables and graphs – Practice exercises 1.2

1. My grandfather had \$200 in savings bonds that matured in 1962 when he gave them to me. The bonds continue to earn interest at a fixed rate so I have yet to cash them Story also appears in 4.1 #3 and 5.3 #1 in. The table shows some values.



		v				
year	1962	1970	1980	1990	2000	2010
Y	0	8	18	28	38	48
B	200.00	318.77	570.87	1,022.34	1,830.85	3,278.77

(a) What do Y and B stand for? Include the units and dependence.

Y=time (years since 1962) ~ indep B = value of savings bond s (\$) ~ dep

from the table it seems closer to 1990 value than to 2000 value

Bistne dep vara so it goes here

(b) What were the savings bonds worth in 1970? \$318.77

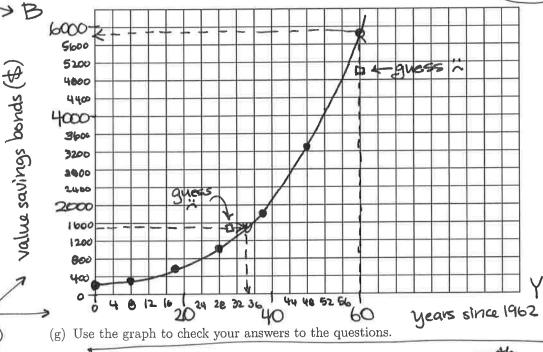
(c) When were the savings bonds worth \$1,022.34?

(d) Approximately when were the savings bonds worth \$1,500?

quess 1994? (e) What do you expect the savings bonds will be worth in 2020?

guess \$5000?

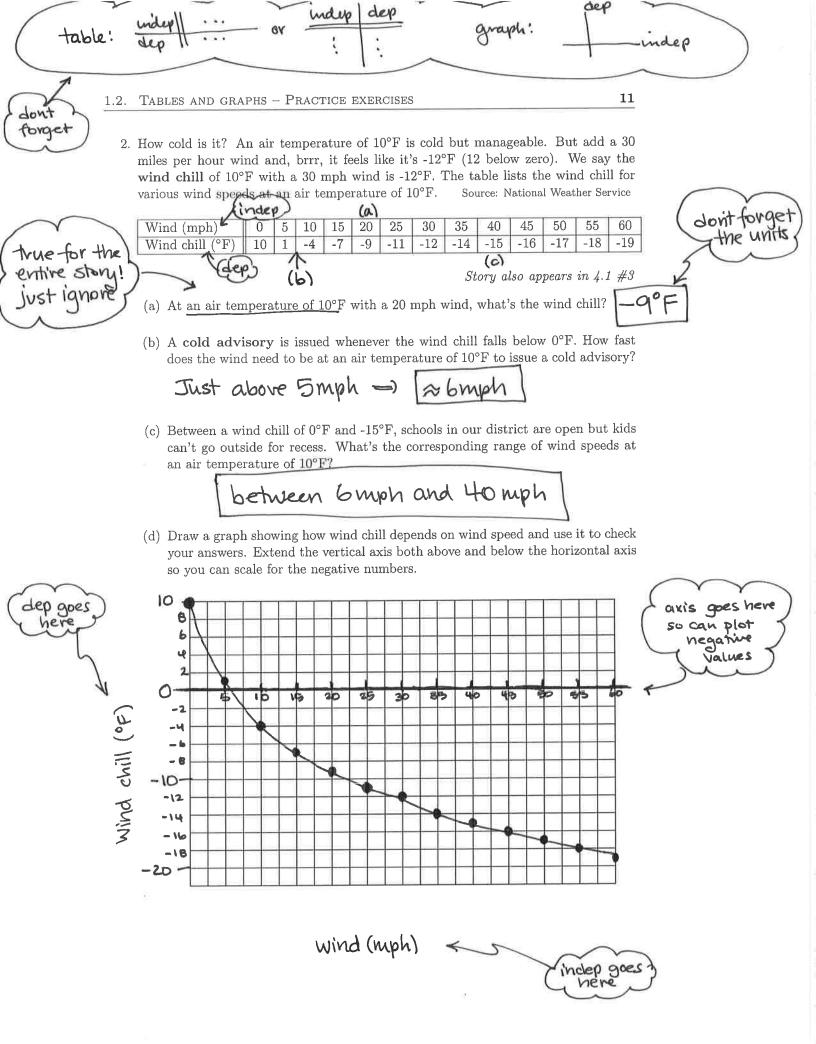
(f) Graph the function using the information given in the table.



Counted by 400s and 4s to make graph large enough and still fit.

> 1994 35 1962 41962 1997

(d) graph seems to suggest they were worth \$ 1500 in 1997, a few years later than guessed. (e) graph seems to suggest they will be worth 2\$5,900 in 2020. That's a lot more than we guessed.

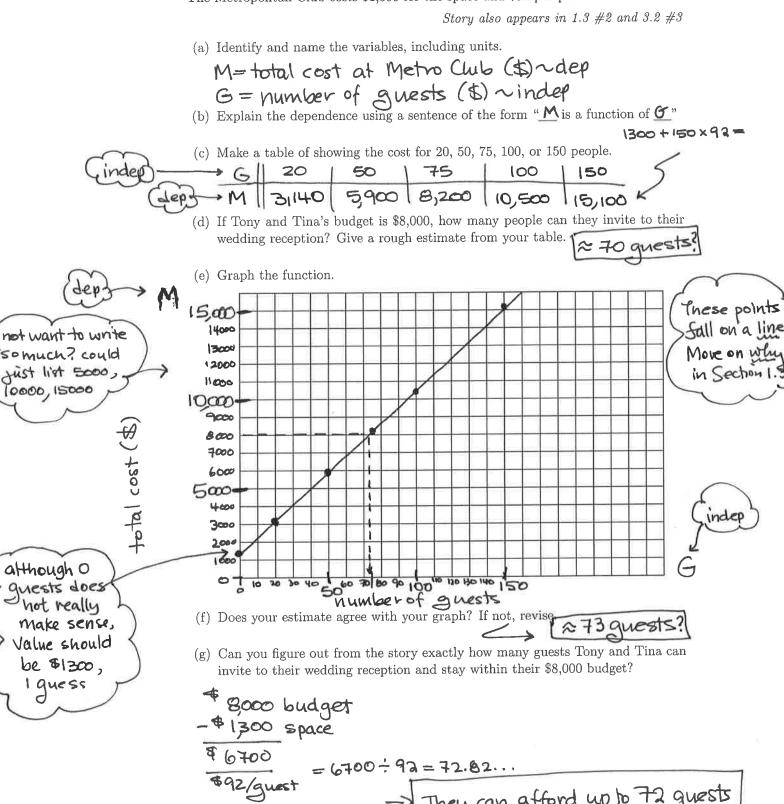


10000, 15000

although 0

1 guess

3. Anthony and Christina are trying to decide where to hold their wedding reception. The Metropolitan Club costs \$1,300 for the space and \$92 per person.



=> They can afford up to 72 quests and stay within \$8000 budget

to pay \$3.45/mug to where it's worth it

to buy the discount card.

could've