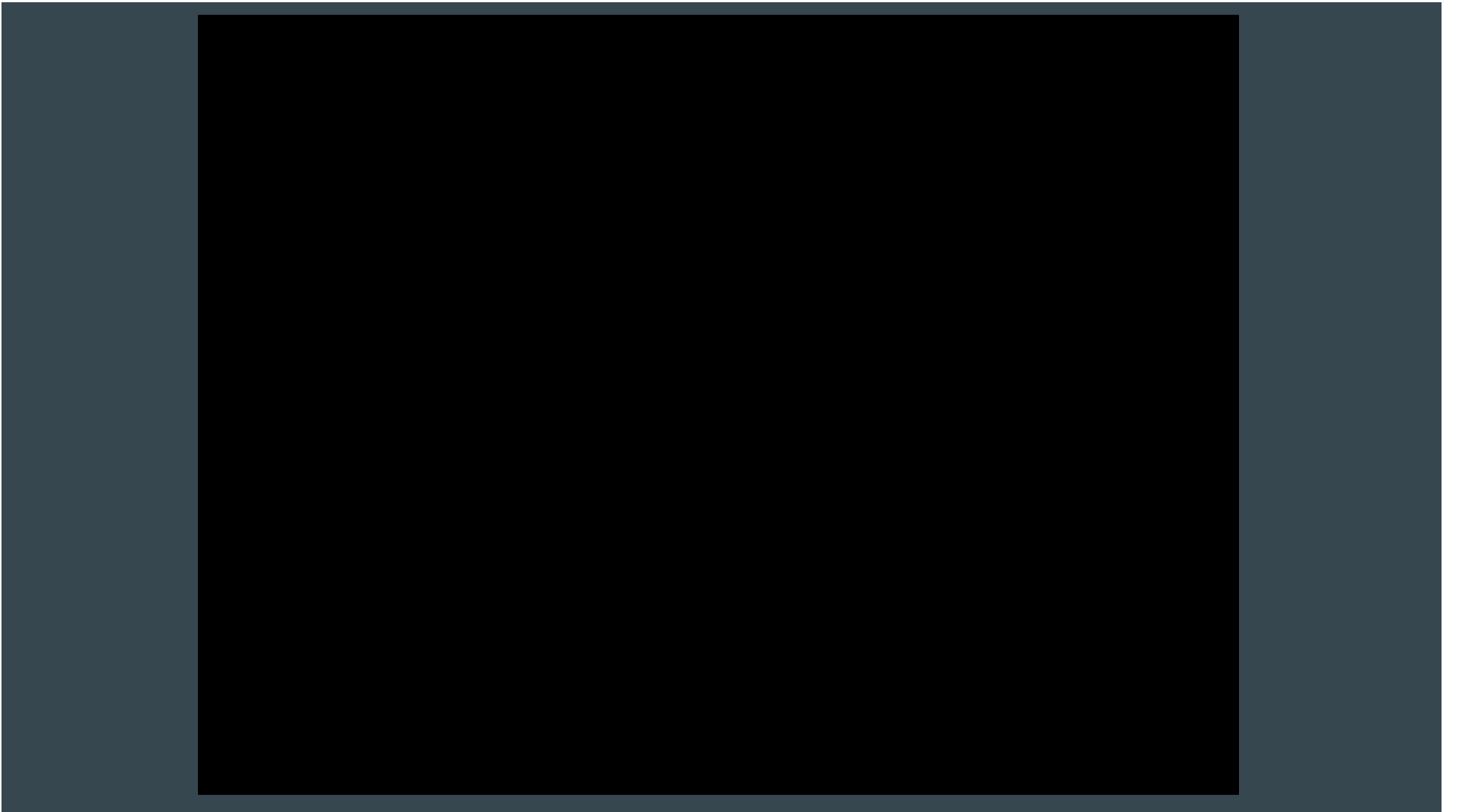


Oil Spills

...

Z kdwgr#rx#qgrz B



Which do you choose?

Wkh#dedv#ehorz #krz #kh#qxp ehur#ieduhov#ri#lq#/#kdw#hp dlq#diwu# gd|v#ri#
fdhdqxs#ru#wz r#glihuhqw#hp ryd#p hwkrgv#dv#duw#ri#dq#h{shulp hqw#qyroylqj#d#
vlp x#dwng#r#l#vs#l#l

Z klfk#p hwkrg#z rx#q# rx#krrv#h#w#fdhdq
xs#kh#r#l#vs#l#l

Z kdw#hdvrqv#p ljkw# rx#v#h#w#xwli|# rxu
fkr#lfh#B

Method 1: Chemical Dispersants

x	0	1	2	3	4
y	20	17.5	15	12.5	10

Method 2: Biological Agents

x	0	1	2	3	4
y	20	16	12.8	10.24	8.192

Think About It

Z rxog# rxu#dqvz hu#fkdgjh#i# rx#kdg#wr#frqwurc#dq#
rlg#s lo#kdwz dv#wz lfh#dv#dujhB

Z kdwz rxog#fkdgjh#i#ndfk#p hwkrg#thp ryhg#wz lfh#
dv#p xfk#rlg#dv#krz q#q#kh#wdehB

Which is best and when?

Ighqwi| #kh# hwkrg#kdw#hp ryhv# ruh#ri#kh#ld#ru#dfk#qwhuydd

Interval	Chemical	Biological
$0 \leq x \leq 1$	-2.5	-4
$1 \leq x \leq 2$	-2.5	-3.2
$2 \leq x \leq 3$	-2.5	-2.56
$3 \leq x \leq 4$	-2.5, 10	-2.048
$4 \leq x \leq 5$	-2.5	
$5 \leq x \leq 6$	-2.5	
$6 \leq x \leq 7$	-2.5	
$7 \leq x \leq 8$	-2.5, 0	

6.5536
 5.24288
 4.1943
 3.35544

Method 1: Chemical Dispersants					
x	0	1	2	3	4
y	20	17.5	15	12.5	10

Method 2: Biological Agents					
x	0	1	2	3	4
y	20	16	12.8	10.24	8.192

Let's discuss.

41 Z kdw#z huh#| rx#frqvlghulqj#z khq#| rx#fwtvlihg#ndfk#lqwhuydø

51 K rz #glg#| rx#gwhup lqh#z klfk#|v#kh#ehwhu#p hwkrg#ru#ndfk#j lyhq#vhw#r i#fulwhuldø

61 Lv#khuh#øq | #srlqw#øq#wip h#z khuh#erwk#p hwkrgv#øuh#txdø | #iifwlyhB#

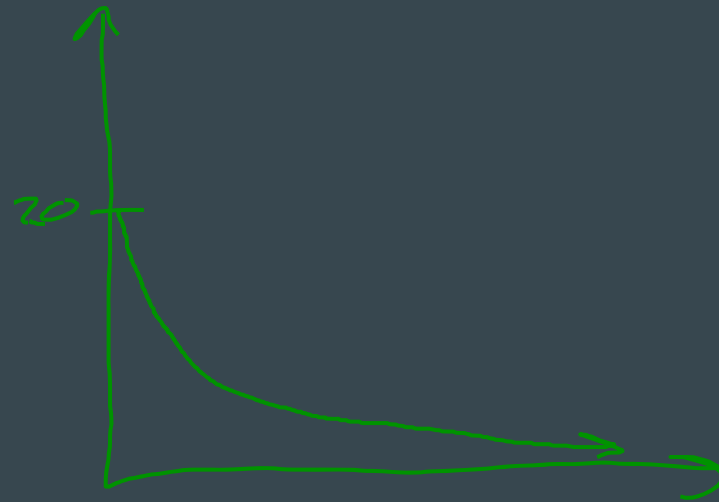
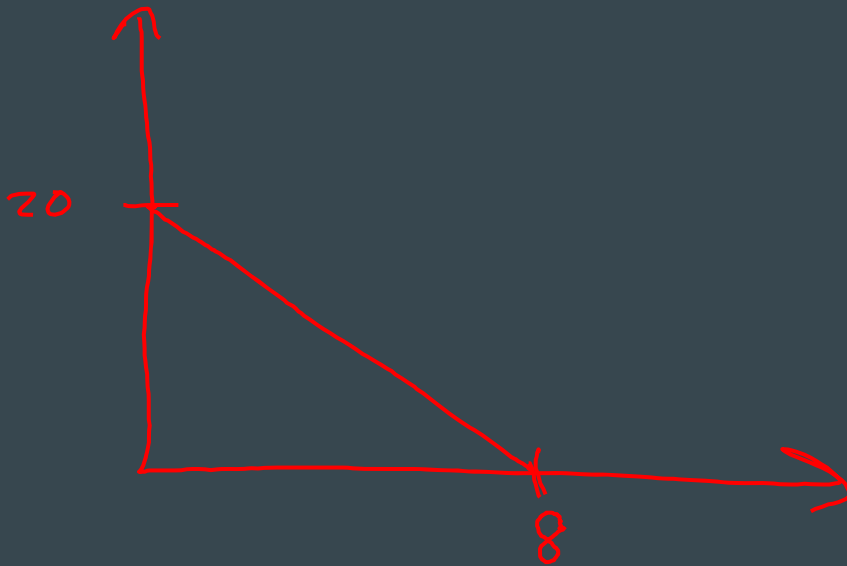
71 K rz #z rxøg#| rx#gflgh#z klfk#p hwkrg#r#hfrp p hgg#i#| rx#z dqwng#r#høp ryh#øø#
ri#kh#r lø

d1 D øexw#13#j dørqv#ri#kh#r lø

e1 Dq | #øp rxqw#ri#r lø

Graph it!

D qd | } h # k h # x p h u l f # g d w # d q g # d # j u s k # r i # k h # x p h u l f # g d w , # k d w # g h i l q h v # k h # d p r x q w #
r i # r l # d # h p d l q l q j # h o w y h # r # k h # x p e h u # r i # g d | v # i r u # d f k # p h w k r g 1



Analyze & Interpret

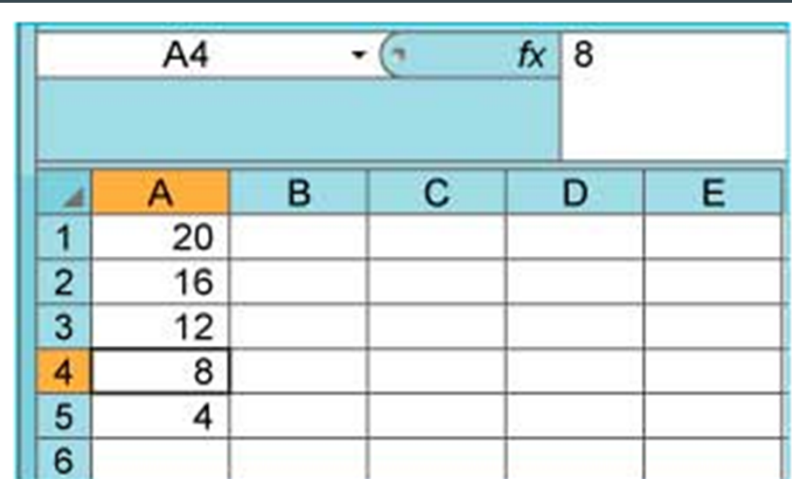
F khp lfdqG lvshudq#wkdyh#b#*frqwdq*#*Ekdqj.lqj*, udwh#ri#*Ekdqjh*#ghilqhg#e|#b##
+frp p rq#dwr/*frp p rq#gliihuhqfh*, vr#k.lv#p hwr.rg#ri#*Edhdq#ks#fdq#eh#p* rghdng#z lk#b##
+dqhdw#x.dgudwif/#n{*srqhqwldo* ixqfwlrq#Wk.lv#v#dq#n{dp sdh#ri#b##*duwkp hwif/#*
jhrp hwulf,#htxhqfh1

Wkh#E lrαj lfdqD jhqw#wkdyh#b##*frqwdq*#*Ekdqj.lqj*, udwh#ri#*Ekdqjh*#ghilqhg#e|#b##
+frp p rq#dwr/*frp p rq#gliihuhqfh*, vr#k.lv#p hwr.rg#ri#*Edhdq#ks#fdq#eh#p* rghdng#z lk#b##
+dqhdw#x.dgudwif/#n{*srqhqwldo* ixqfwlrq#Wk.lv#v#dq#n{dp sdh#ri#b##*duwkp hwif/#*
jhrp hwulf,#htxhqfh1

Moving On...

K rz # ljkw# rx#ghqli | #ydoxh#g#k lv#suhdgvkhhw#z lkrxw#pdp lqj #kh#ydoxB

K rz # ljkw# rx#dssd #k lv#dssurdfk#wr#kh#hup vr i#b#htxhqfh#z ulwhq#g#b#lw#gwhdg#
ri#b#suhdgvkhhwB



The image shows a screenshot of an Excel spreadsheet. The active cell is A4, which contains the number 8. The formula bar above the spreadsheet shows the formula =A4, indicating that the value in A4 is being copied to the active cell. The spreadsheet has a grid with columns labeled A through E and rows labeled 1 through 6. The values in column A are 20, 16, 12, 8, 4, and an empty cell for row 6.

	A	B	C	D	E
1	20				
2	16				
3	12				
4	8				
5	4				
6					

Dining at the Bistro



Wkh#gljudp #krz v#kh#qxp ehur#i#hdw#dyldled#dw
d#elwur i#irxu#p dchw#flufxou#dedv1

Z run# wk#sduwhur# {suh#kh#qxp ehur#i#hdw#dw#kh#liuhq#wl}hv#i#dedv#v#
vhtxhqf#ri#qxp ehuv#Wkhq#q#vz hu#khv#xhw#r#q#v#r#j#hk#hu1

- Write the sequence of numbers a_1, a_2, a_3, a_4 .
- What value would be in the fifth position? $a_5 = 10$
- How would you represent the number in the sequence at the 10th position? a_{10}
- How would you represent the number in the sequence at the n th position? a_n
- What does a_{n-1} represent?
- What is the value of a_{n-1} when $n = 3$?

Determine whether each sequence is arithmetic. Write *yes* or *no*.

1. $8, -2, -12, -22,$

2. $-19, -12, -5, 2, 9$

3. $1, 2, 4, 8, 16$

4. $0.6, 0.9, 1.2, 1.8, \dots$

Find the next four terms of each arithmetic sequence.

5. $6, 18, 30, \dots$

6. $15, 6, -3, \dots$

7. $-19, -11, -3, \dots$

8. $-26, -33, -40, \dots$

9. **FINANCIAL LITERACY** Kelly is saving her money to buy a car. She has \$250, and she plans to save \$75 per week from her job as a waitress.

a. How much will Kelly have saved after 8 weeks?

b. If the car costs \$2000, how long will it take her to save enough money at this rate?

Recursive Formula for Arithmetic Sequence

$$a_n = a_{n-1} + d$$

← distance between #'s
↙ change

$$a_5 = a_{5-1} + \underline{\quad}$$
$$a_4 + \underline{\quad}$$

Ex 1: Write a recursive formula for each sequence.

d, #5 #13 #21; #29 #37 #45

$$a_n = a_{n-1} + 8$$

42 50
 $a_8 = a_7 + 8$

$$a_8 = 50 + 8 = 58$$

e, #1 #10 #19 #28 #37 #46

$$a_n = a_{n-1} + 9$$

Ex 2: Find the first 5 terms of each sequence.

d,

$$a_1 = 16 \quad a_{n+1} = a_n + 4$$

e,

$$a_1 = -2 \quad a_{n+1} = a_n - 5$$