16.4b Line of Best Fit

1.

Minutes (x)	0	10	20	30	40	50	60
Calories Burned (y)	0	74	120	175	200	242	280

The equation of the line of best fit:

The correlation:

Type of correlation:

What does the slope mean in the context of this situation?

Identify the y-intercept:

2.

Year (x)	0	5	10	15	20	25	30
Number of Dentists (y)	154	152	149	147	144	136	121

The equation of the line of best fit:

The correlation:

Type of correlation:

What does the slope mean in the context of this situation?

Identify the y-intercept:

3.

Total Fat (x)	0	9	13	21	30	36	42
Total Calories (y)	0	260	320	425	452	463	550

The equation of the line of best fit:

The correlation:

Type of correlation:

What does the slope mean in the context of this situation?

Identify the y-intercept:

Find the line of best fit

4.

Data Set 1:

POINTS	x	y
A	9	26
B	13	32
C	21	42
D	30	53
E	31	56
F	31	59
G	34	61

5.

Data Set 2:

POINTS	x	y
A	95	17
B	92	19
C	87	12
D	83	17
E	75	9

Find the exponential equation of the following tables:

6.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{2}$	1	2	4	8	16	32

7.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{27}$	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27

8.

x	-3	-2	-1	0	1	2	3
y	4	8	16	32	64	128	256

9.

x	-3	-2	-1	0	1	2	3
y	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9	27	81

10.

x	-3	-2	-1	0	1	2	3
y	$\frac{9}{8}$	$\frac{9}{4}$	$\frac{9}{2}$	9	18	36	72