WHAT'S MY LINE?

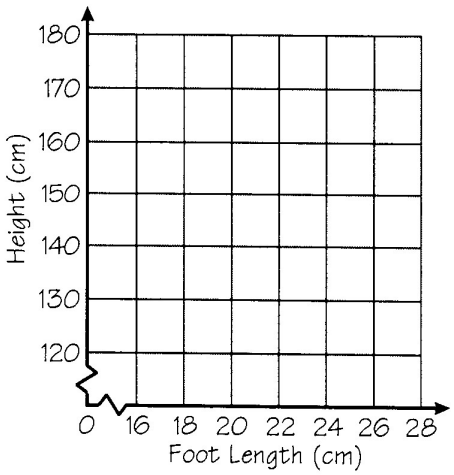
Construct a scatter plot. Draw a line of fit, then use two points on the line to find the equation of the line. (HINT: First write your equation in point-slope form, then change it to slope-intercept form.)

1. Foot Length and Height

Each of several students measured the length of his/her right foot and height.

Let x = foot length (cm)
y = height (cm)

x	y
24	159
22	148
19	126
23	157
20	138
24	162
28	180
25	161
17	122
24	155
26	173
22	146



*two points:*_____

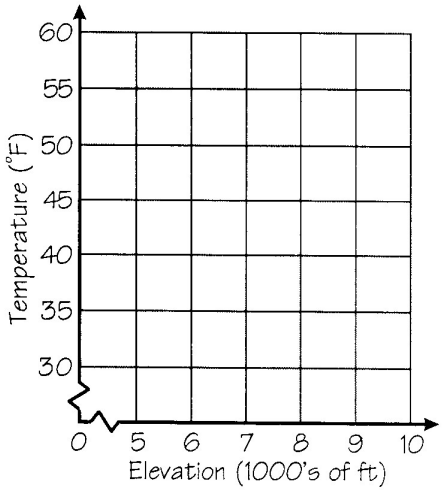
*equation:*_____

2. Elevation and Temperature

Temperatures were reported from various elevations on a mountain.

Let x = elevation (1000's of ft)
y = temperature (°F)

x	y
7.2	45
8.6	41
5.8	47
7.5	43
5.1	56
8.3	39
9.5	36
6.4	49
9.8	32
6.0	46
9.0	40
5.5	49



*two points:*_____

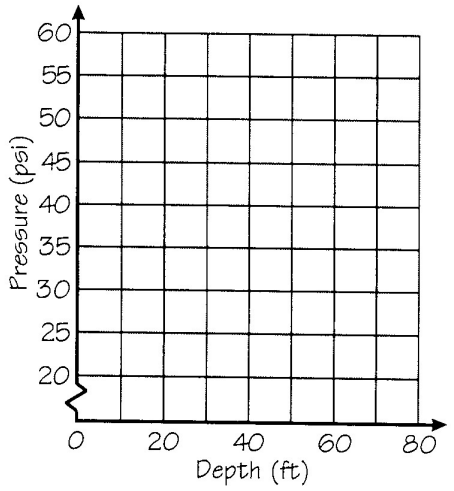
*equation:*_____

3. Depth and Pressure

Divers reported the pressure at various depths underwater.

Let x = depth (ft)
y = pressure (psi)

x	y
69	50
30	31
50	41
78	57
44	39
66	45
12	20
36	32
57	42
17	24
75	52
23	25



*two points:*_____

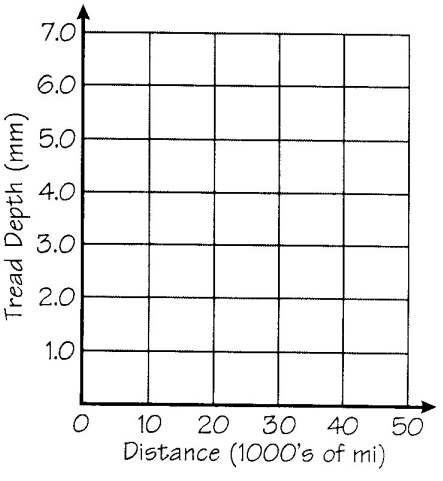
*equation:*_____

4. Mileage and Tread Depth

Tread depth of the XL tire was measured for different distances driven.

Let x = distance driven (1000's of mi)
y = tread depth (mm)

x	y
17	5.3
41	1.2
25	4.0
4	6.8
34	2.3
22	4.1
48	0.3
36	1.9
13	5.7
30	3.3
45	1.9
9	6.0



*two points:*_____

*equation:*_____