

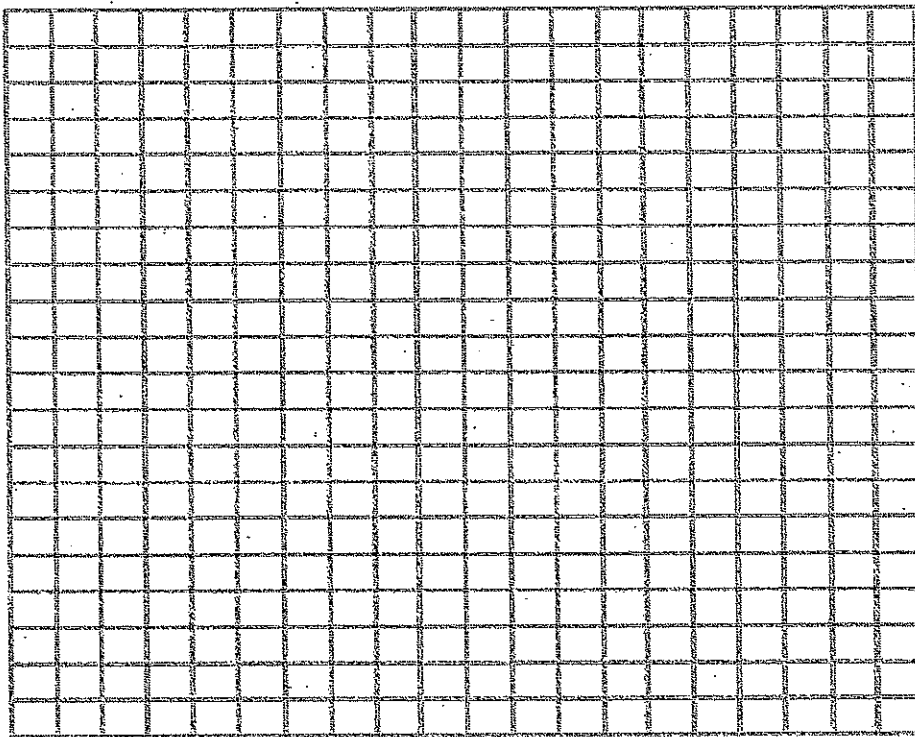
Chapter 6.2 – Interpreting Graphs

Name: _____

1) The value of a computer decreases over time as table below shows:

Time (in years), T	0	1	2	3	4
Value (in \$), V	2000	1700	1400	1100	800

a) Graph this table of values below



b) Use interpolation to determine when the computer was worth \$ 1000?

c) Use extrapolation to determine when the computer appears to have no value?

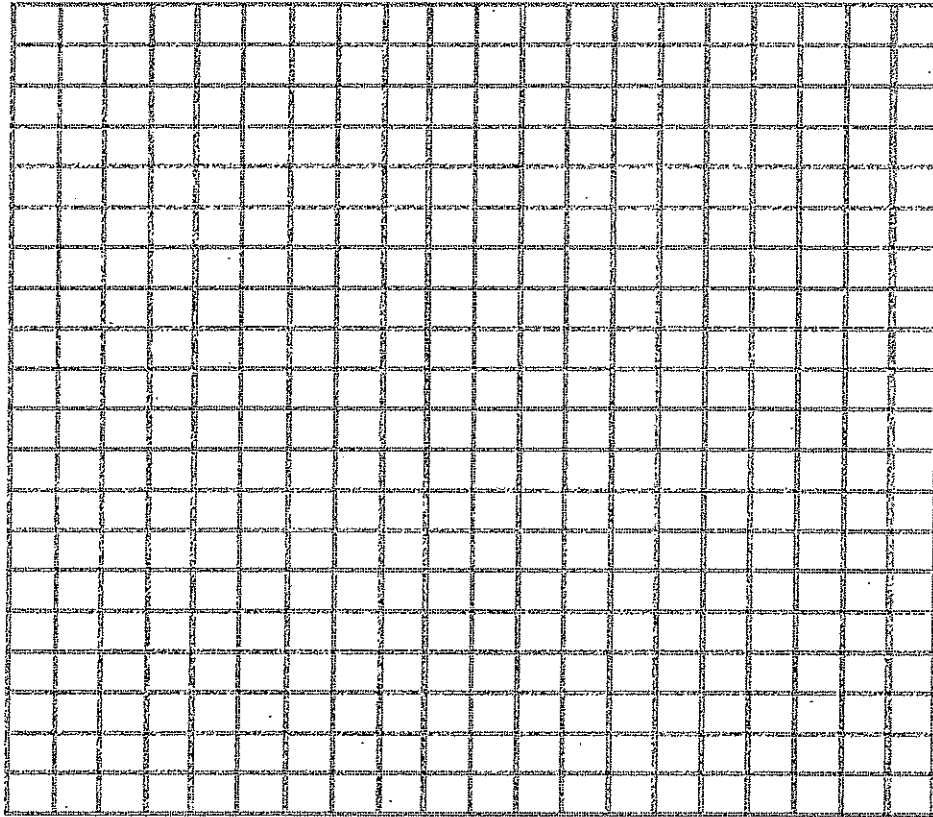
d) Interpolate the value of the computer after 1.5 years?

e) Is it appropriate to join the points with a straight line? Explain.

2) A weather balloon recorded the air temperature at different altitudes (see table).

Altitude (m), A	350	750	1000	1500	1800
Temperature ($^{\circ}$ C), T	11.4	5.7	2.1	-5	-10

a) Graph the table below.



- b) Interpolate the approximate value for the air temperature when the balloon is at a height of 600 m.
- c) Interpolate the approximate altitude of the balloon when the air temperature was -7.5° C?
- d) Extrapolate the air temperature at 2500 m.
- e) Is it possible to interpolate the precise value for the air temperature when the altitude is 1050.92 m ? Explain.