Light and photosynthesis

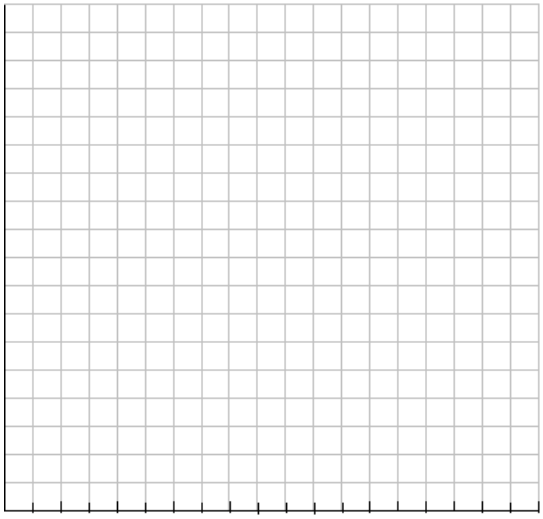
Below is a table of results obtained by a year 10 student who was looking at how different light intensity affected the rate of photosynthesis in two different types of plant.

Light Intensity (Lux)	**Photosynthesis Rate (Photosynthetic Unit)**	
	Plant Type A	**Plant Type B**
10	5	5
20	9	29
30	16	41
40	23	49
50	32	54
60	42	58
70	55	60
80	72	60

Draw line graphs for the above data on the grid below. Remember to give the graph a key, and scales for both axis.

Photosynthesis Rates of Two Plant Types

a) **Photosynthesis rate** (Photosynthetic unit)



Light Intensity (Lux)

b) What was the rate of photosynthesis for Plant Type B when the light intensity was 45 lux?

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c) On your graph, draw and label a line for plant type C. Plant type C has a lower rate of photosynthesis than Plant Type A for light intensities up to 40 lux. Above 40 lux, Plant Type C has a faster rate.

Why is Plant Type B more likely to live on a forest floor with little light?

d) _____

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