Section B - Photogrammetry-Answer only one question from this section

Question 3 (5+12+8)

- a. Define the following terms: (2+2+1)
- i. Vertical photograph

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- ii. Low oblique photograph
- iii. High oblique photograph
- b. Points A and B are at elevations 223 m and 162 m above datum respectively. The photographic coordinates of their images on a vertical photograph are

	X (mm)	Y (mm)
Ά	-52.35	-48.27
В	40.64	43.88

What is the horizontal length of the line AB if the photo was taken from a height of 1510m above datum with a 152.4mm focal length camera?

c. Mention and describe any four products of aerial photogrammetry.

Question 4 (3+5+4+5+3+5)

- a. Name three major components of an aerial camera. (3)
- b. Aerial photos of a project area were taken at scale 1:24,000 with a 153mm focal length camera. The end lap was 65% while the side lap was 30%.

Calculate:

- (i) The flying height of the place was 1584m above mean sea level.
- (ii) Ground dimensions covered by a 230mm by 230 mm pictureformat.
- (iii) The ground spacing between exposure stations,
- (iv) The ground spacing between the flight lines,
- (v) The total ground area expressed in hectares covered by a pair of overlapping photographs.