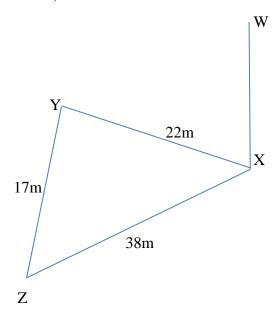
Name	Date

Answer ALL questions.

1. The diagram below, not drawn to scale, shows the position of three points, X, Yand X on a football field.

Given that XY = 22 m, YZ = 17 m and XZ = 38 m.



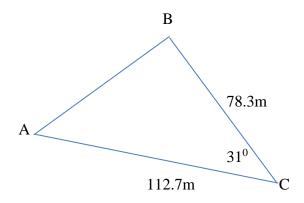
- (a) Calculate:
 - (i) Angle XZY;

(i	i) Tł	ne area of triangle X	YZ;			
(b) V	WX repr	esents the height of	a lamp-post. If th	e angle of eld	evation of elevation	of W
fı	rom Z is	19 ⁰ :				
(i	Sł	now the angle of ele	vation on a diagra	am of triangle	e WXZ;	
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Calculate the height of the lamp-post WX. (ii)

2. The diagram below, not drawn to scale, shows the boundary points, A, B and C of a triangular garden on a horizontal plane.

Given that BC = 78.3 m, AC = 112.7 m and $Angle \ ACB = 31^{\circ}$.



(a) Calculate, correct to 1 decimal place, the distance AB;

(b) Calculate, correct to 1 decimal place, the area of triangle ABC;
(c) Find angle ABC, correct to three significant figures.
(c) Find angle ABC, correct to three significant figures.
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