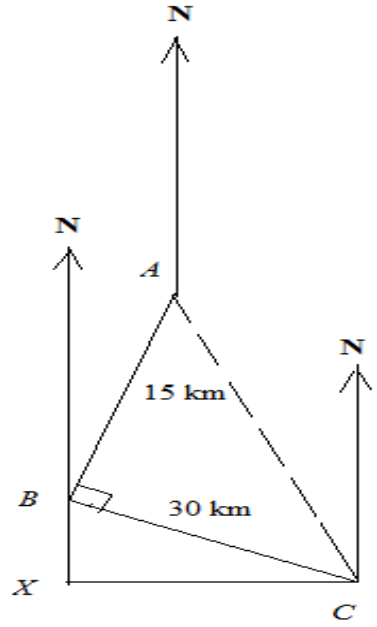
Question	Scheme	Mark	Notes
27 (a)	 $\angle ABC = 90^o$ $AC = \sqrt{30^2 + 15^2}$ AC= 33.54 →awrt **33.5** (km)	3	M1 M1 (DEP) A1
(b)	Point X is st BX is perpendicular to CX (see diagram) $\angle BCX = 20^o$ $\tan \angle BCA = \frac{15}{30}$ $\left(\angle BCA = 26.565^o\right)$ Bearing of A from $C = 270 + ("\angle BCA" + 20)$ **(OR** $\tan \angle BAC = \frac{30}{15}$ $\left(\angle BAC = 63.435^o\right)$ ∴ bearing of C from A is $200 - "63.435"$ $\left(= 136.565^o\right)$ ∴ bearing of A from C is $360 - (180 - "136.565")$ (oe) **)** 316.565→ awrt **317**	4	M1 M1 M1 (DEP) (M1) (M1) (DEP) (M1) (DEP)