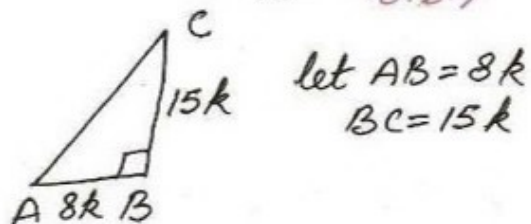


④ $15 \cot A = 8$
 $\Rightarrow \cot A = \frac{8}{15}$ (a.s./o.s.)

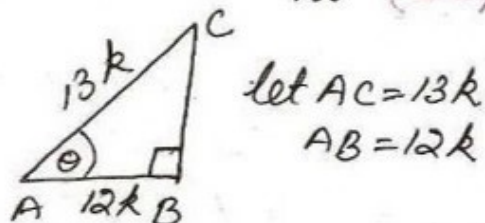


In rt ΔABC
 $AC^2 = AB^2 + BC^2$ (py.th.)
 $= (8k)^2 + (15k)^2$
 $= 64k^2 + 225k^2$
 $= 289k^2$
 $AC = \sqrt{289k^2}$
 $= 17k$

$\sin A = \frac{15k}{17k}$

$\sec A = \frac{17k}{8k}$

⑤ $\sec \theta = \frac{13}{12}$ (h/a.r.)



In rt. ΔABC
 $BC^2 = AC^2 - AB^2$ (py.th.)
 $= (13k)^2 - (12k)^2$
 $= 169k^2 - 144k^2$
 $= 25k^2$
 $BC = \sqrt{25k^2}$
 $= 5k$

$\sin \theta = \frac{5k}{13k}$

$\cos \theta = \frac{12k}{13k}$

$\tan \theta = \frac{5k}{12k}$

$\cot \theta = \frac{12k}{5k}$

$\operatorname{cosec} \theta = \frac{13k}{5k}$

