6/10-120	Deven Jadhav Class 10 C Roll, no 10
	Math MTRU5
1	given - AABI where DE 11 BC
	TO PHOVS -> AD AE OB EC
	Jonstruction → Join BF and CD Docum DM LAC and EN LAB
	Proof-
	an (AADE) = 1 . B. H
	$= L \cdot AD \cdot EN - 0$ $= L \cdot AD \cdot EN - 0$
	an $(ABDE) = \frac{1}{2} \cdot AE \cdot DM \cdot \hat{Q}$ an $(AADE) = \frac{1}{2} \cdot AE \cdot DM \cdot \hat{Q}$
	an (DDEC) = L. E(· DM - (i))
	Divide O and D
	AH (ABDE) = 1 · AD · EN AH (ABDE) = 1 · OB · EN
	:- OT (AADE) = AD - AD OT (ABDE) DB
	Divide @ By @ -> ax (DADE) = + · AE · DM. ax (DDE() + · EC · DM

A ar (DADE) AE (B)

Now, A ABDE and ADEL are on some has DE belower some parallels BE and DE

ar (ABDE) = ar (ADEC)

Hemy,

Ar (BBE) Ar (BEL)

: AD - AE (from A & B)
OB EC

Henre proved.

2. Given: AABC right angled at B

To prove: AC = AB 2+ BL2

Construction: Draw BD + AC

Proof: Simu BD 1 AC

using thronom 6.7: If a perpendicular is drawn from
Justes of right angle of the 1 to the
hypotenus than triangle on 85. of the 1
are similar to whole 0 and each other

DAM - > PTO