Isometry

Dilations

composition of transformations → perform / state the composition

glide reflection

angles in lines $\times \neq$ 

$\cong$ Δ's

- SSS
- SAS
- ASA
- AAS

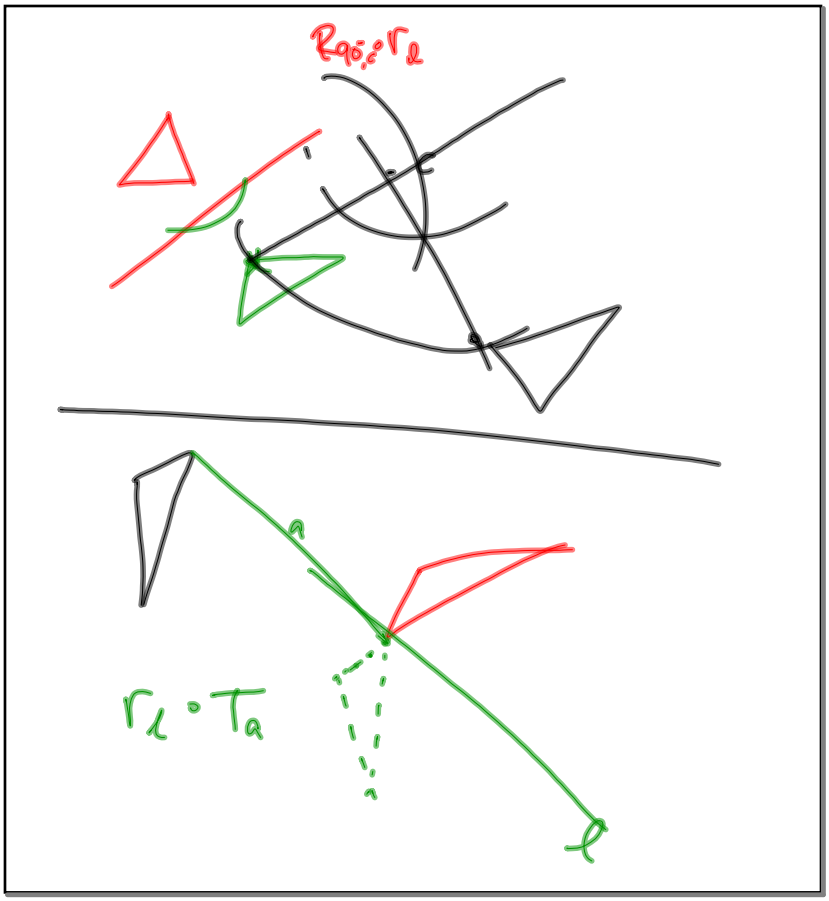
CPCTC

$\parallel$

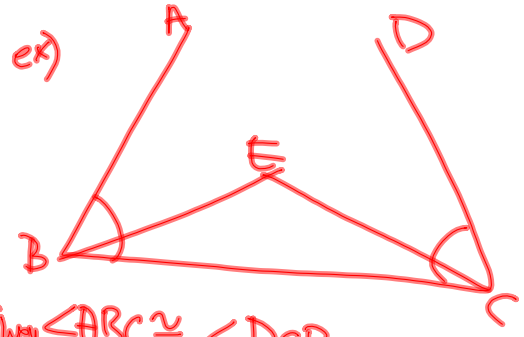
$\perp$

bisector / midpt.

subtraction
substitution
reflexive



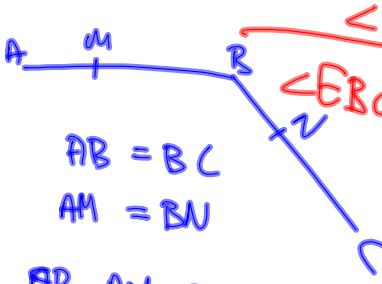
subtraction ex)



Given $\angle ABC \cong \angle DCB$

$\angle ABE \cong \angle DCE$

$\angle EBC \cong \angle ECB$ by subtraction.



$AB = BC$

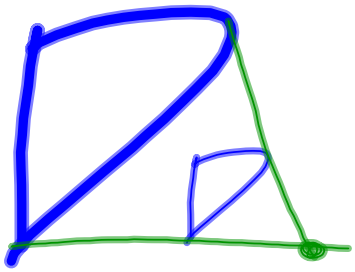
$AM = BN$

$AB - AM = BC - BN$ subst.

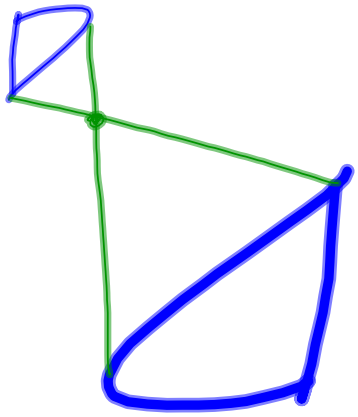
$MB = AB - AM$, $NC = BC - BN$

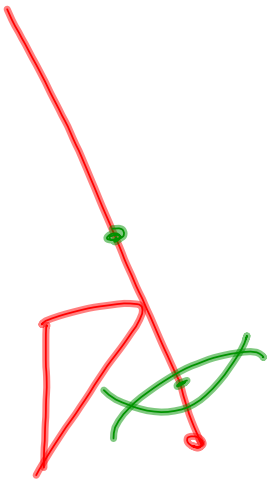
$MB = NC$ subst

Da, $a > 0$



Da, $a < 0$

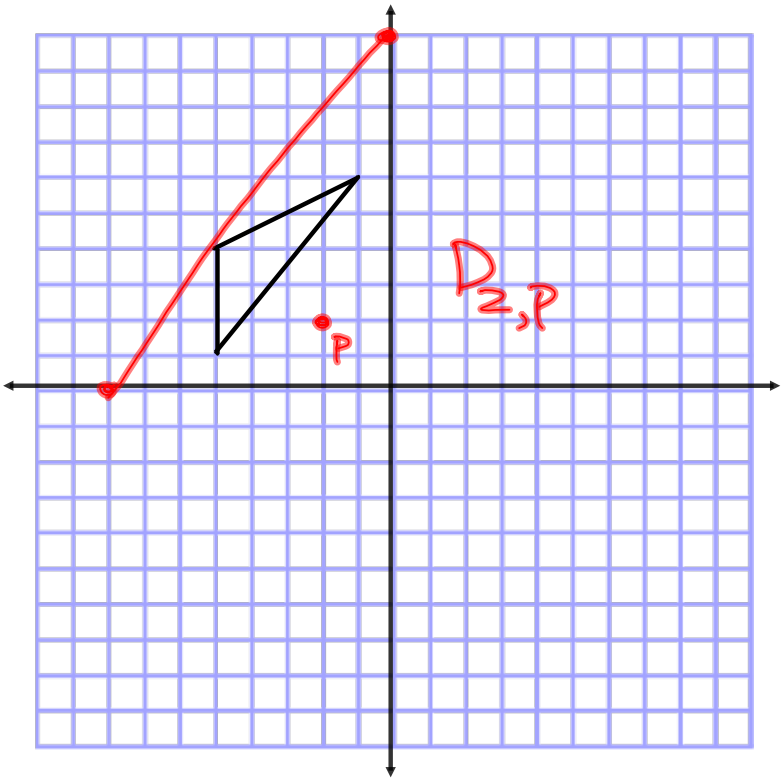




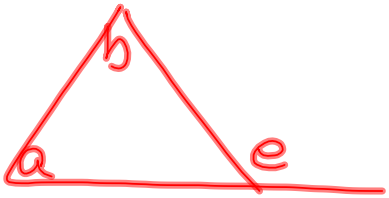
$D_{1.5,0}$

opp. isos.
line refl.
(glide refl)

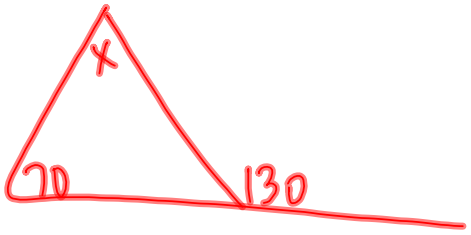
Direct. isos.
$T_a, r_o, R_{Q,\theta}$
D_1, D_{-1}



$D_{2,P}$

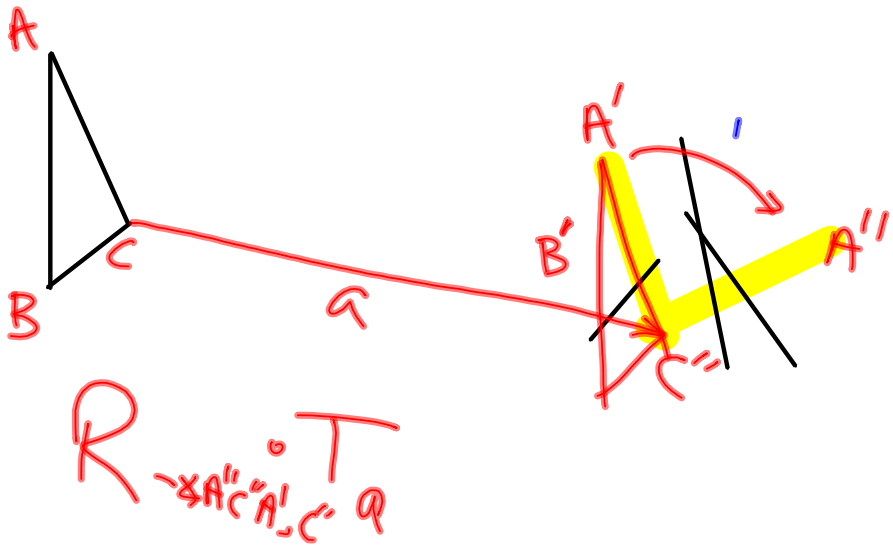


$e = a + b$

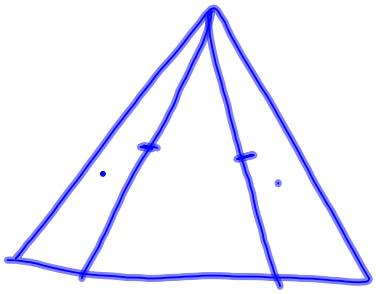


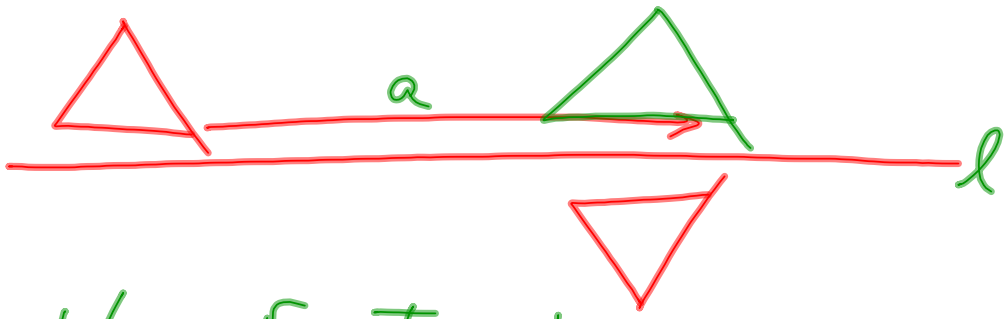
$130 = 70 + x$

$60 = x$

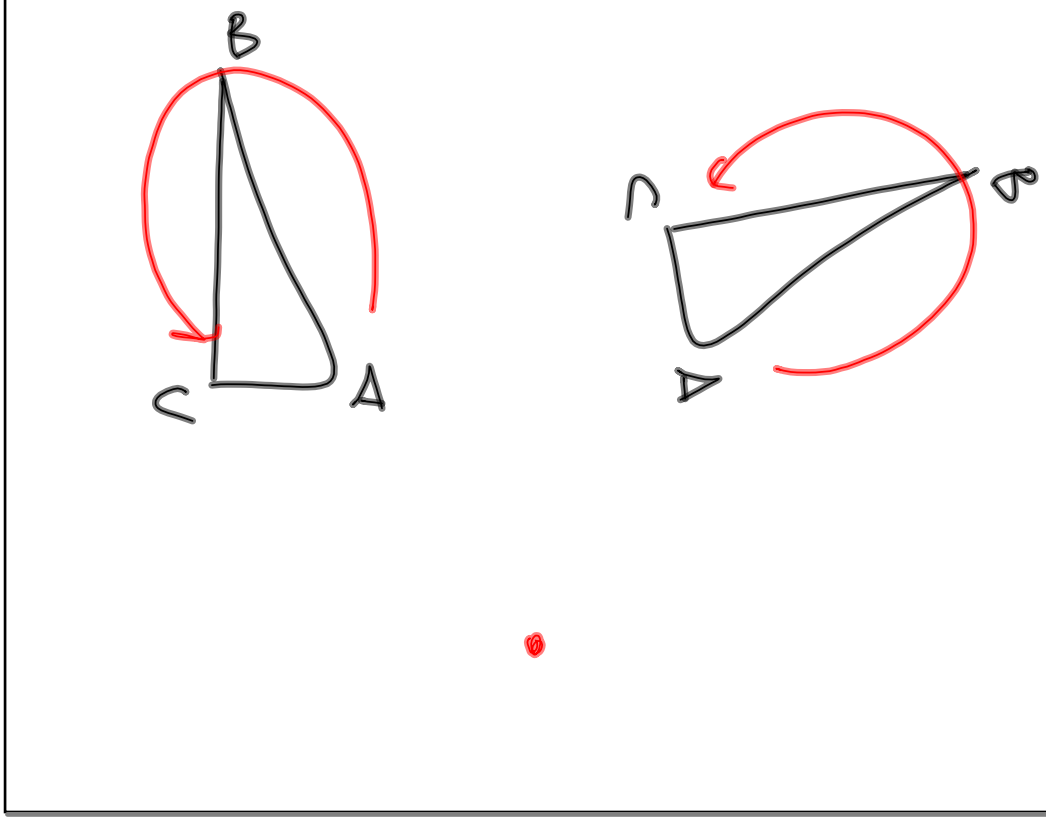


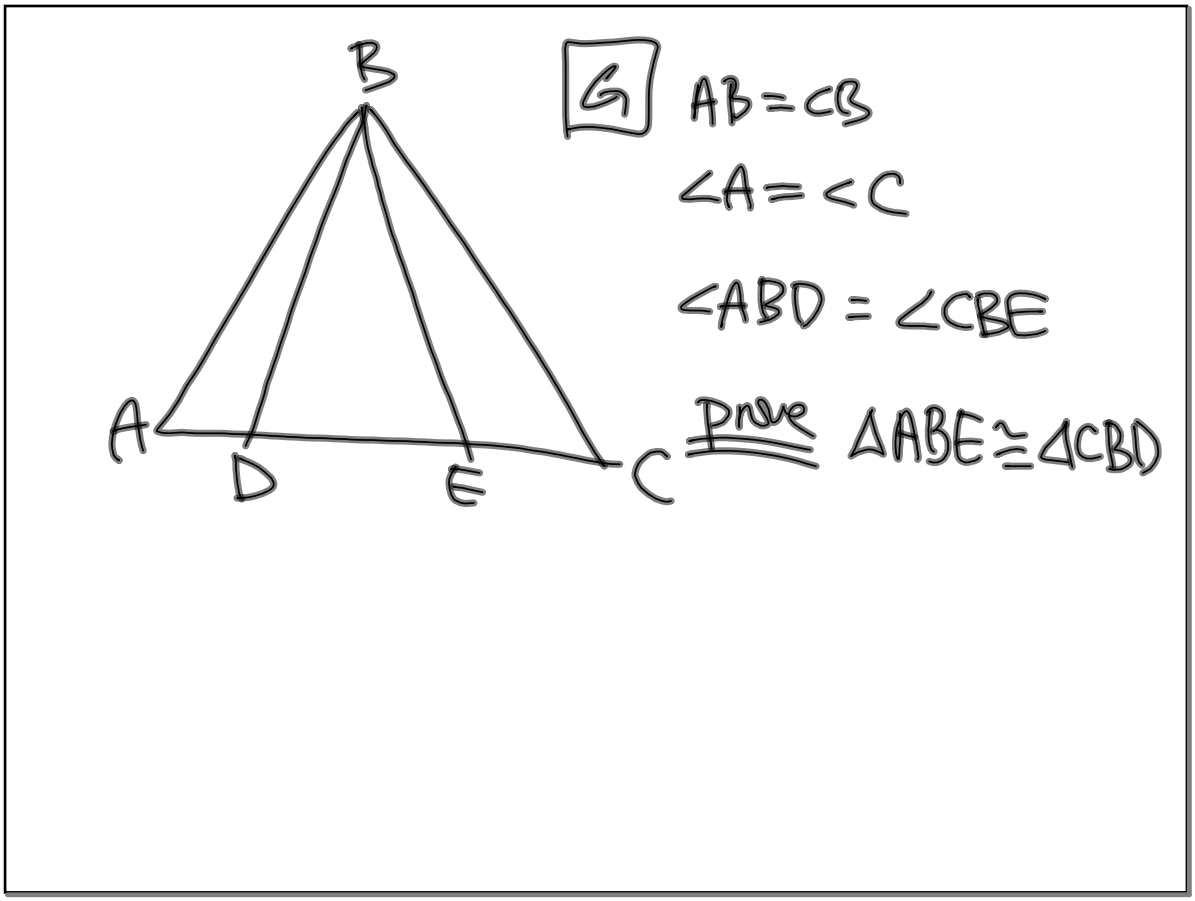
$R_{\angle A''C''A'C'} \circ T_{a}$





b/c $r_\ell \circ T_a \neq a \parallel \ell$


B
C
A
C
B
D


B
A
D
E
C
G
AB = CB
∠A = ∠C
∠ABD = ∠CBE
Prove △ABE ≅ △CBD