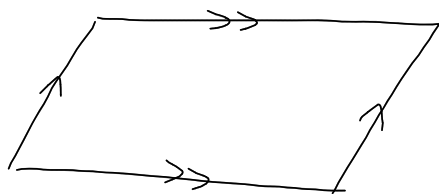


b/

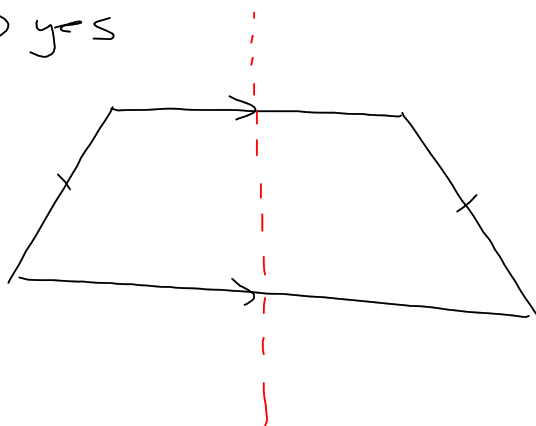
a)



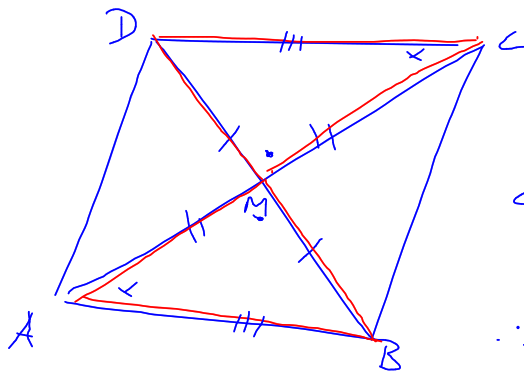
rotation: 180°

reflektion: nil

b) $y = s$



9d(m)

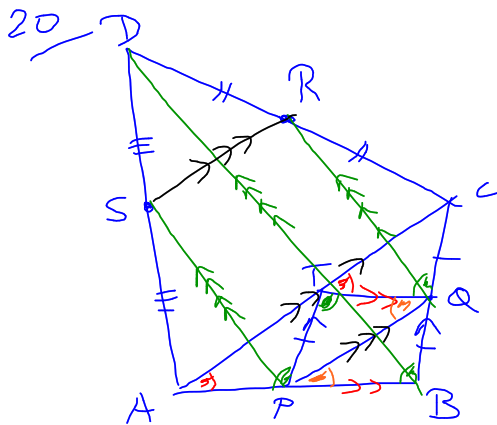


$AB = CD$ (matching sides in $\cong \Delta$'s)

$\angle BAM = \angle DCM$ (matching \angle 's in $\cong \Delta$'s)

$\therefore AB \parallel DC$ (alternate \angle 's =)

ABCD is \parallel gram
(one pair sides = and \parallel)



a) $PT = BQ$
 $PT \parallel BQ$
 opposite side = and \parallel
 \therefore $PBQT$ is \parallel gram

$\triangle APT, \triangle QPT, \triangle PBQ, \triangle TQC$

$PT = PT = BQ = QC$ (given) (s)

$\angle TPA = \angle QTP$ (alternate \angle 's, $AB \parallel TR$)

$\angle QTP = \angle PBQ$ (opposite \angle 's in \parallel gram)

$\angle PBQ = \angle CQT$ (corresponding \angle 's, $PB \parallel TR$)

$\angle TAP = \angle CTQ$ (corresponding \angle 's, $AB \parallel TR$)

$\triangle ATP \equiv \triangle TCQ$ (AAS)

$\angle TQP = \angle BPQ$ (alternate \angle 's, $TQ \parallel PB$)

$\therefore \triangle QTP \equiv \triangle PBQ$ (AAS)

$QT = QT$ (common side)

$\therefore \triangle CTQ \equiv \triangle PTQ$ (SAS)

Thus $\triangle CTQ \equiv \triangle PTQ \equiv \triangle QBP \equiv \triangle ATP$

$AP = PB$ (matching sides in $\cong \Delta$'s)
 \therefore P is midpoint of AB

c) $\angle PQT = \angle CTQ$ (matching \angle 's in $\cong \Delta$'s)
 \therefore $AC \parallel PQ$ (alternate \angle 's =)

Similarly $QR \parallel BD \parallel PS$

also $RS \parallel AC$

Thus $PQRS$ is a parallelogram (opposite sides \parallel)