

**Given** projective map:  $f : m \rightarrow m'$   
 with:  $f(A) = A'$ ,  $f(B) = B'$  and  $f(C) = C'$

**Problem:** construct  $X' = f(X)$

**Construction:**

- Draw line  $l = AA'$ .
- Take any arbitrary points  $P$  and  $P'$  on  $l$ .
- Define  $B'' = PB \wedge P'B'$  and  $C'' = PC \wedge P'C'$ .
- Define  $m'' = B''C''$  and  $A'' = m'' \wedge l$ .
- Now:  $m(ABC) \stackrel{P}{\wedge} m''(A''B''C'') \stackrel{P'}{\wedge} m'(A'B'C')$   
 so:  $X' = (((X \vee P) \wedge m'') \vee P' \wedge m')$