



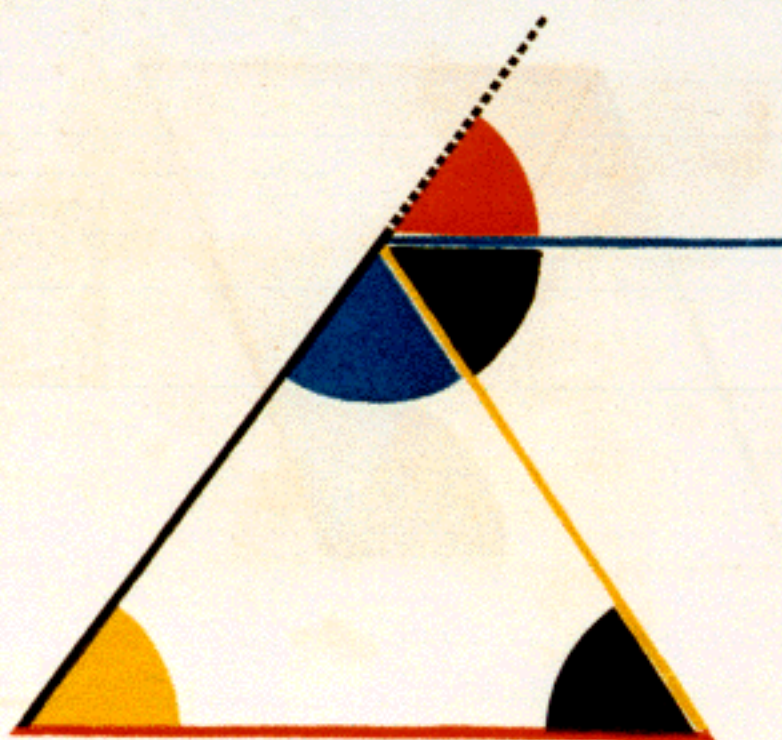
F any side (—) of a triangle be produced, the external

angle () is equal

to the sum of the two internal and

opposite angles ( and ),

and the three internal angles of every triangle taken together are equal to two right angles.



Through the point  draw

 $\parallel$  (pr. 31.).

Then $\left\{ \begin{array}{l} \text{Red semi-circle} = \text{Yellow quarter-circle} \\ \text{Black quarter-circle} = \text{Black semi-circle} \end{array} \right\}$ (pr. 29.),

$\therefore \text{Yellow quarter-circle} + \text{Black quarter-circle} = \text{Red and black semi-circle}$ (ax. 2.),

and therefore

$\text{Yellow quarter-circle} + \text{Blue semi-circle} + \text{Black quarter-circle} = \text{Red and black semi-circle} = \text{Semi-circle}$
(pr. 13.).

Q. E. D.