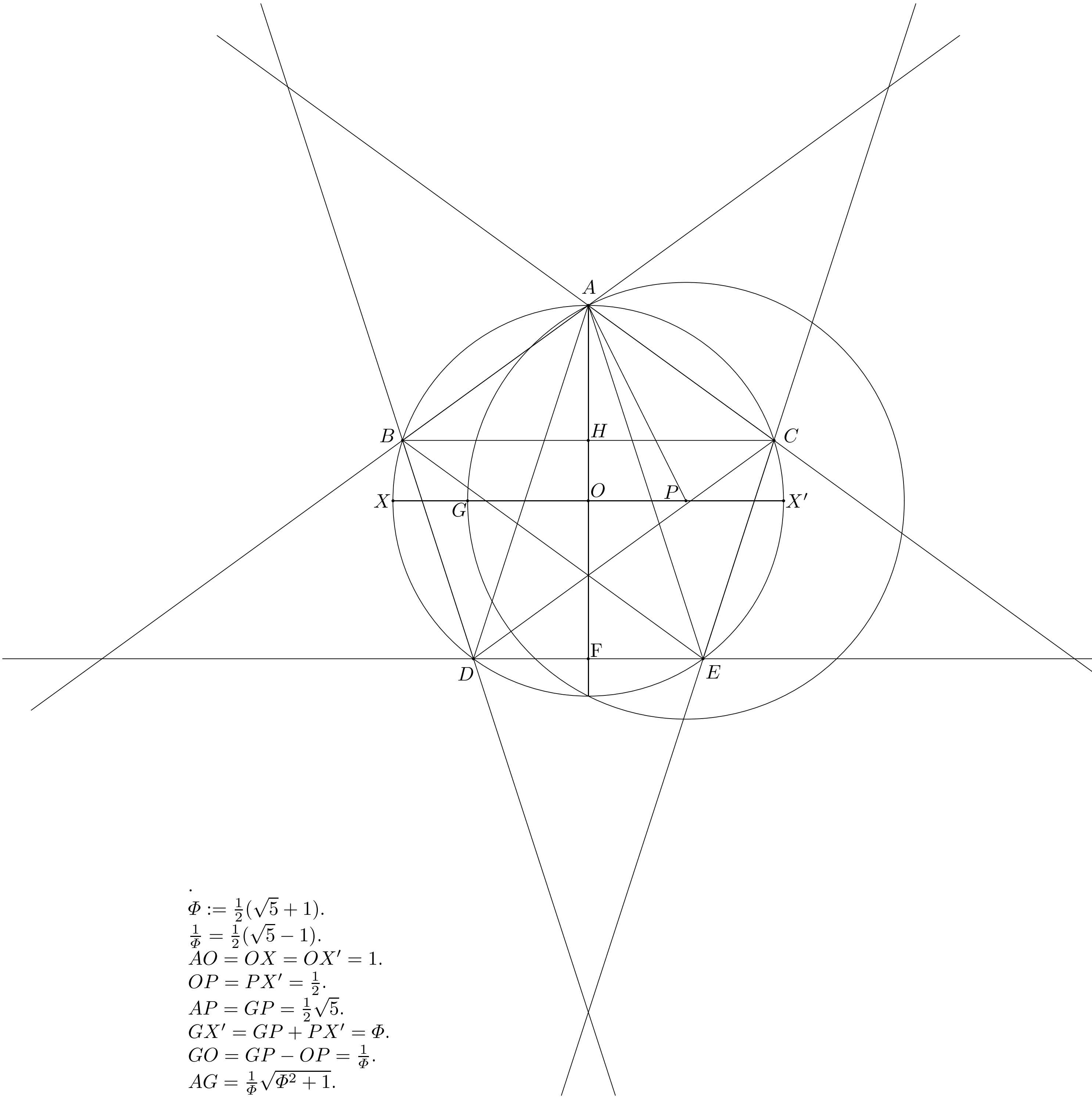

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$\Phi := \frac{1}{2}(\sqrt{5}+1)$.

$\frac{1}{\Phi} = \frac{1}{2}(\sqrt{5}-1)$.

$AO = OX = OX' = 1$.

$OP = PX' = \frac{1}{2}$.

$AP = GP = \frac{1}{2}\sqrt{5}$.

$GX' = GP + PX' = \Phi$.

$GO = GP - OP = \frac{1}{\Phi}$.

$AG = \frac{1}{\Phi}\sqrt{\Phi^2+1}$.