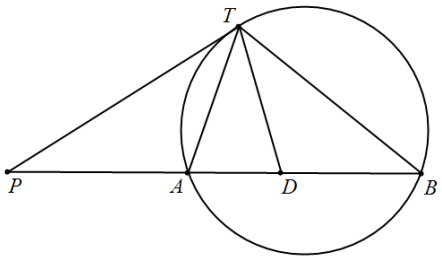

Example 1 97 : As shown in Figure 1 , in △ *ABT* , draw a tangent to the circumscribed circle of △ *ABT through T , intersect AB* at *P* , and *TD* bisect ∠ATB . Prove: *PD* = *PT* .

Proof: $\dfrac{\dfrac{B-P}{D-T}}{\dfrac{T-D}{T-P}}=\dfrac{\dfrac{T-B}{T-D}}{\dfrac{T-D}{T-A}}\dfrac{\dfrac{B-P}{B-T}}{\dfrac{T-A}{T-P}}$,