## Created by T. Madas

## **Question 24** (\*\*\*\*\*)

The point P lies on the ellipse has polar equation

$$r(5-3\cos\theta) = 8, \ 0 \le \theta < 2\pi$$
.

The ellipse has foci at O(0,0) and at T(3,0).

Show that |OP| + |PT| is constant for all positions of P.

||OP| + |PT| = 5

