Class Discussion

Unit 9 Topic 1 Part 3 Applications for circles and parabolas

Ex1: $P(2,1)$ is on $T: x^2 = 4y$. Find a tangent line of T with the point of tangency on P.

Ex2: For the same T from Ex1. If now $P(2,-1)$, Find all tangent lines of T pass P.

Ex3: If $T: (x+2)^2 + (y-4)^2 = 5$ and $P(2,1)$, find all tangent lines of T pass P.