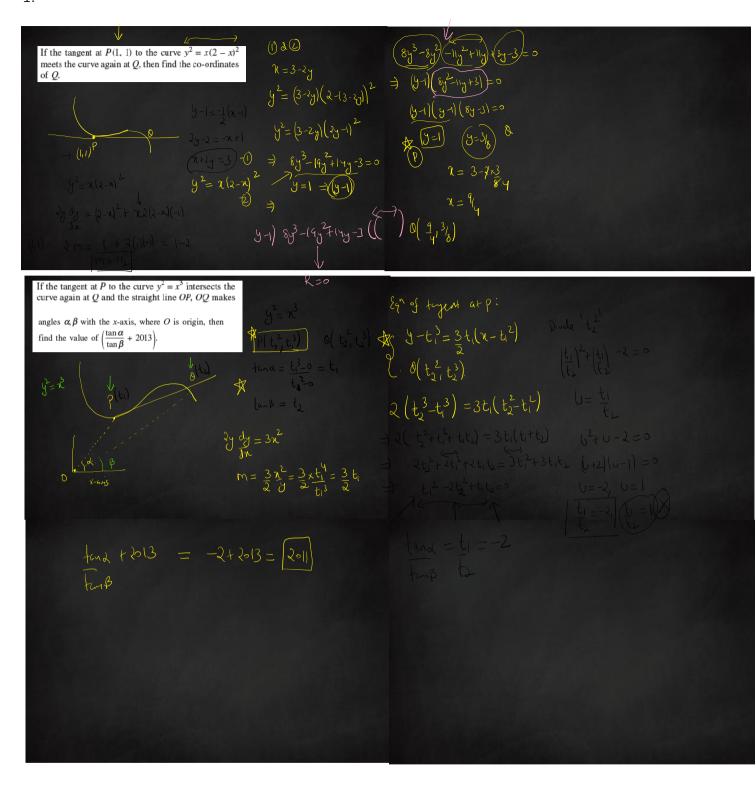
COMP AND INTEGER



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Find the equation of the straight line which is a tangent at one point and normal at another point to the curve $y = 8t^3 - 1$, $x = 4t^2 + 3$.

If the tangent at a variable point P on the curve $y = x^2 - x^3$ meets it again at Q, then prove that the locus of the middle point of PQ is $y = 1 - 9x + 28x^2 - 28x^3$.

A curve is given by the equations $x = \sec^2\theta$ and $y = \cot\theta$. If the tangent at P where $\theta = \frac{\pi}{4}$ meets the curve again at Q. Find PQ.

If the tangent at any point $P(4m^2, 8m^3)$ of $x^3 - y^2 = 0$ is a normal also the curve $x^3 - y^2 = 0$ then find the value of $x = x^3 - y^3 - y^3 = 0$ then find the value of $x = x^3 - y^3 - y^3 = 0$

