

SECTION 3.5 HINT

5. Differentiating the equation implicitly with respect to x to compute $\frac{dy}{dx}$
- 25-30. Differentiating the equation implicitly with respect to x to compute $\frac{dy}{dx}$, Take the point into the equation to know the slope, then you can write down the equation of tangent line.
59. Do as exercise 25-30 to find the slope of tangent line, and prove the families of curves are orthogonal trajectories of each other.
63. Take $y = 0$ into this equation to find these points. Find those equations of the tangent lines to see if they are parallel.
69. Assume h is the height of the lamp, and (a, b) is the intersection point. Take them into equations to solve a, b, h .