1. Determine the equation of the line that is tangent to the ellipse E at the point (8,12), where E is the ellipse that is given by the equation

 $\frac{(x+2)^2}{25} + \frac{(y-4)^2}{16} = 8.$

- 2. The line tangent to a quadratic polynomial f at (2,5) is given by

$$L(x) = 7(x - 2) + 5.$$

- Determine the line tangent to f^{-1} at (5, 2).

3. Find the equation of the line L tangent to $f(x) = \sqrt{x}$ at $(625, 25)$.																							
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