Work on these with your partner(s) at the board

Let $f(x) = x^2 - x$

1. Use the definition of the derivative to find $f'(3)$

2. Write the equation of the line tangent to the graph $y = f(x)$ at $x = 3$

3. Verify your answer to #2 by graphing $f(x)$ and your line on the same set of axes