

MAT 136 (Calculus I), Prof. Jim Swift
In-Class Worksheet: Derivative Shortcuts 2.

This is a pencil-and-paper exercise. No calculators.

Let $f(x) = e^x(1 - x)$.

- (a) Find the x -intercept(s) and the y intercept of the graph $y = f(x)$.
- (b) Find $f'(x)$.
- (c) Find the value(s) of x where the graph $y = f(x)$ has a horizontal tangent.