Match the function on the left to the *differential equation* on the right that it satisfies. **Here are the matches:**

\[ f(t) = e^{4t} \quad f'(t) = 4f(t) \]

\[ f(t) = 4t \quad f'(t) = 4 \]

\[ f(t) = 2t^2 \quad f'(t) = 4t \]

\[ f(t) = e^{2t} \quad f''(t) = 4f(t) \]

**Challenge Problem:** See 9.2 Example 1.