

Name: _____
AP Calc

Date: _____
Ms. Loughran

Do Now:

Evaluate each.

$$1. \frac{d}{dx} \left[\int_4^x t^2 dt \right] =$$

Thoughts on a shortcut to evaluate this?

$$2. \frac{d}{dx} \left[\int_0^{\cos x} t dt \right] =$$

Does your conjecture still hold?

$$3. \frac{d}{dx} \left[\int_1^{\tan x} e^t dt \right] =$$