

This quiz is worth 10 points and you have 10 minutes to complete it.

**Calculators are NOT allowed today.**

**1.** (5 pts) Show that  $\frac{d}{dx}(x^3) = 3x^2$  using the (usual) definition of derivative.

**2.** (5 pts) Show that  $\frac{d}{dx}(x^3) = 3x^2$  using the *alternate* definition of derivative.