

Derivatives and Integrals
Basic Derivation Rules

$$15. \frac{d}{dx} [\sec u] = (\sec u \operatorname{tg} u) u'$$

$$21. \frac{d}{dx} [\operatorname{arcsec} u] = \frac{u'}{|u|\sqrt{u^2 - 1}}$$

$$16. \frac{d}{dx} [\operatorname{cosec} u] = -(\operatorname{cosec} u \operatorname{ctg} u) u'$$

$$22. \frac{d}{dx} [\operatorname{arccosec} u] = -\frac{u'}{|u|\sqrt{u^2 - 1}}$$