

## Таблица дифференциалов

$$1) \ d(u^n) = nu^{n-1}du$$

$$2) \ d(e^u) = e^u du$$

$$3) \ d(a^u) = a^u \ln a \ du$$

$$4) \ d(\ln u) = \frac{1}{u}du$$

$$5) \ d(\log_a u) = \frac{1}{u \ln a}du$$

$$6) \ d(\sin u) = \cos u du$$

$$7) \ d(\cos u) = -\sin u du$$

$$8) \ d(\operatorname{tg} u) = \frac{1}{\cos^2 u}du$$

$$9) \ d(\operatorname{ctg} u) = -\frac{1}{\sin^2 u}du$$

$$10) \ d(\arcsin u) = \frac{1}{\sqrt{1-u^2}}du$$

$$11) \ d(\arccos u) = -\frac{1}{\sqrt{1-u^2}}du$$

$$12) \ d(\operatorname{arctg} u) = \frac{1}{1+u^2}du$$

$$13) \ d(\operatorname{arcctg} u) = -\frac{1}{1+u^2}du$$