

$$\int_C \vec{F} \cdot \frac{d\vec{W}}{ds} =$$

$$\int_C \vec{F} \cdot \frac{d\vec{T}}{ds} =$$

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$$W = \int_C \vec{F} \cdot \vec{T} ds,$$

$$\int_C \vec{r}(t) \cdot \frac{d\vec{T}}{dt} dt =$$

$$W = \int_C \vec{F} \cdot \vec{T} ds = \int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt = \int_C \vec{F} \cdot d\vec{r},$$

(1)

$$\int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt =$$

$$\int_C \vec{F} \cdot d\vec{r} = \int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt =$$

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$$\int_C \vec{F} \cdot d\vec{r} = \int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt =$$

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integral, to clearly state how to evaluate a line integral over a vector field in the following Key Idea.

$$\int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt =$$

$$\int_C \vec{F} \cdot \vec{T} ds = \int_C \vec{F} \cdot d\vec{r} = \int_a^b \vec{F}(\vec{r}(t)) \cdot \frac{d\vec{r}}{dt} dt.$$

$$\int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt =$$

**Notation**

$$\int_C \vec{F} \cdot \frac{d\vec{r}}{dt} dt =$$

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