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syms x b
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diff(cos(x^b)^(1/b), x)
```

```
ans =
```

$$-x^{b-1} \cos(x^b)^{\frac{1}{b}-1} \sin(x^b)$$

```
int(cos(x) * exp(x), x)
```

```
ans =
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$$\frac{e^x (\cos(x) + \sin(x))}{2}$$

```
int(cos(x) * exp(x), x, 0, b^2)
```

```
ans =
```

$$\frac{e^{b^2} (\cos(b^2) + \sin(b^2))}{2} - \frac{1}{2}$$