

```
syms wn t
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```
int(-t * cos(wn * t), t)
```

```
ans =
```

$$-\frac{\cos(t wn) + t wn \sin(t wn)}{wn^2}$$

```
int(-t * cos(wn * t), t, -1, 1)
```

```
ans = 0
```

```
int(-t * sin(wn * t), t)
```

```
ans =
```

$$-\frac{\sin(t wn) - t wn \cos(t wn)}{wn^2}$$

```
int(sin(wn * t), t)
```

```
ans =
```

$$-\frac{\cos(t wn)}{wn}$$

```
ans =
```

$$-\frac{2 (\sin(wn) - wn \cos(wn))}{wn^2}$$