```
(%i1)  kill(all);
(%o0)  done
```

```
(%i1)  depends([drdr,omega],r);
(%o1)  [drdr(r),ω(r)]
```

```
(%i2)  D_phi: 1/3*drdr/r^2-r^2/2*diff(omega,r);
```

$$(\%o2)\quad \frac{drdr}{3\,r^2}-\frac{\left(\frac{\mathrm{d}}{\mathrm{d}\,r}\,\omega\right)r^2}{2}$$

```
(%i3)  omega: 2/3*drdr/r^3;
```

$$(\%o3)\quad \frac{2\,drdr}{3\,r^3}$$

```
(%i4)  diff(omega,r);
```

$$(\%o4)\quad \frac{2\left(\frac{\mathrm{d}}{\mathrm{d}\,r}\,drdr\right)}{3\,r^3}-\frac{2\,drdr}{r^4}$$

```
(%i5)  ev(D_phi,diff);
```

$$(\%o5)\quad \frac{drdr}{3\,r^2}-\frac{\left(\frac{2\left(\frac{\mathrm{d}}{\mathrm{d}\,r}\,drdr\right)}{3\,r^3}-\frac{2\,drdr}{r^4}\right)r^2}{2}$$

```
(%i6)  expand(ev(D_phi,diff));
```

$$(\%o6)\quad \frac{4\,drdr}{3\,r^2}-\frac{\frac{\mathrm{d}}{\mathrm{d}\,r}\,drdr}{3\,r}$$