$s\_sol := simplify(sol);$ 

$$s\_sol := x(t) = e^{\frac{(\sqrt{5} - 3)t}{2}} \_C2 + e^{-\frac{(3 + \sqrt{5})t}{2}} \_C1 + 1$$
 (7)

$$\lim := \lim_{t \to \infty} x(t) = 1 \tag{8}$$

> ex3 := diff(x(t), t\$2) + 4x(t) = 1

$$ex3 := \frac{d^2}{dt^2} x(t) + 4x(t) = 1$$
 (9)

>  $cond := x(0) = \frac{5}{4}, D(x)(0) = 0;$ 

$$cond := x(0) = \frac{5}{4}, D(x)(0) = 0$$
 (10)

 $\gt$  solution := dsolve({ex3, cond}, x(t));

$$solution := x(t) = \frac{1}{4} + \cos(2t)$$
 (11)