

```

[> restart
[> Ecuacion := -Hooke·s(t) = Masa·diff(s(t), t$2)
      Ecuacion := -Hooke s(t) = Masa  $\left( \frac{d^2}{dt^2} s(t) \right)$  (1)
[> Condiciones := s(0) = - $\frac{4914}{10000}$ , D(s)(0) = 0;
      Condiciones := s(0) = - $\frac{2457}{5000}$ , D(s)(0) = 0 (2)
[> Hooke :=  $\frac{(19)}{\left(\frac{5}{10}\right)}$ ; Masa :=  $\frac{(20)}{(1000)}$ ;
      Hooke := 38
      Masa :=  $\frac{1}{50}$  (3)
[> Ecuacion;
      -38 s(t) =  $\frac{1}{50} \frac{d^2}{dt^2} s(t)$  (4)
[> Solucion := dsolve({Ecuacion, Condiciones})
      Solucion := s(t) = - $\frac{2457}{5000} \cos(10 \sqrt{19} t)$  (5)
[>
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