

```

[ > assign(soln);
[ > evalf(v4(t), 3);
                    5. - 6.66 e(-250.t) + 1.67 e(-1000.t)
[ > v4a:=op(2, expand(v4(t)));
                    v4a :=  $\frac{20 \sqrt{562500} e^{(1/2 t \sqrt{562500})}}{9 \left( -625 + \frac{1}{2} \sqrt{562500} \right) (e^t)^{625}}$ 
[ > v4b:=op(3, expand(v4(t)));
                    v4b :=  $-\frac{20 \sqrt{562500} e^{(-1/2 t \sqrt{562500})}}{9 \left( -625 - \frac{1}{2} \sqrt{562500} \right) (e^t)^{625}}$ 
[ > plot([v4(t), v4a, v4b, 5], t=0..5/250, color=[black, black, black], linestyle=[1, 3, 3, 3], title='Output Voltage and Components', labels=['Time (s)', 'v4(t) (V)']);
[ >

```