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> with(plots) :
> a:=2: b:=8: f:=t->a*exp(-t)*cos(2*t) + ((a+b)/2)*exp(-t)*sin(2*t)
;
      
$$f:=t \rightarrow a e^{-t} \cos(2t) + \frac{1}{2} (a+b) e^{-t} \sin(2t) \quad (1)$$

> h:=t->(1/5) * (1 - exp(-t)*cos(2*t) - (1/2)*exp(-t)*sin(2*t));
      
$$h:=t \rightarrow \frac{1}{5} - \frac{1}{5} e^{-t} \cos(2t) - \frac{1}{10} e^{-t} \sin(2t) \quad (2)$$

> p1:=plot(f(t), t=0..2, color=green) :
> p2:=plot(f(t)+h(t-2), t=2..4, color=blue) :
> p3:=plot(f(t)+h(t-2)-h(t-4), t=4..7, color=red) :
> p4:=plot(f(t), t=2..7, color=yellow) :
> display({p1,p2,p3,p4}) ;

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