Quiz 2: Let  $y_1 = 2 \sin 4x$  and  $y_2 = \sqrt{\pi} \tan^{-1} x$  are particular solutions of

$$y'' + e^x y' + (\cos x)y = e^{-x}$$

and

$$y'' + e^x y' + (\cos x)y = \sec x.$$

Find a particular solution of

$$y'' + e^{x}y' + (\cos x)y = \frac{3}{2}e^{-x} + 7\sec x.$$