

2.
$$R(s) = \frac{1}{s!}$$

 $Y(s) = \frac{8!}{s! + 2s + 5} = (\frac{1}{s+1})$
 $= \frac{8}{(s+1)(s^2 + 2s + 5)}$

$$= \frac{A}{(s+1)'} + \frac{B_s+C}{(s^2+2s+5)}$$

$$A = (s+1) F(s)|_{s=1}^{2} = \frac{8}{1^{2}-2+5} = 2$$

$$1 + \frac{.b-2}{8} = \frac{1}{2}$$

$$\frac{1+\frac{2+5}{2}}{1+\frac{2-2}{8}} = \frac{1}{2}$$

$$\frac{1+\frac{2-2}{8}}{1+\frac{2-2}{8}} = \frac{2}{5+1} = \frac{2-1}{(5+1)^2+4}$$

$$\frac{1+\frac{2+5}{8}}{1+\frac{2+5}{8}} = \frac{2-1}{5+1} = \frac{2-1}{(5+1)^2+4}$$



