



$$\begin{aligned}
 \frac{\delta Y(s)}{\delta X(s)} &= 3 \cdot \frac{\frac{1}{s}}{1 + \frac{2s^2(2s+1)}{(s^2+2s+1)s}} \\
 &= 3 \frac{s^2+2s+1}{4s^3+2s^2+s^3+2s^2+s} \\
 &= \frac{3s^2+6s+3}{5s^3+4s^2+s}
 \end{aligned}$$