Problem 1) $f(x) = \text{Rect}(x/4) + \text{Tri}(x) \quad \rightarrow \quad F(s) = 4\,\text{sinc}(4s) + \text{sinc}^2(s).$

$$g(x) = \text{Rect}(x/2) - 2\,\text{Tri}(x) \quad \rightarrow \quad G(s) = 2\,\text{sinc}(2s) - 2\,\text{sinc}^2(s).$$

In the above derivations, we have used the scaling property of Fourier transformation, as well as the fact that the Fourier transform of Rect(x) is sinc(s), while that of Tri(x) is sinc^2(s).