1.

From the Srednicki solution manual:

8.5) For $x^0 > y^0$, we must close the contour in the lower-half k^0 plane. The result will vanish if both poles are above the real k^0 axis, so this is the prescription that yields $\Delta_{\text{ret}}(x-y)$. We can implement this prescription via

$$\Delta_{\rm ret}(x-y) = \int \frac{d^4k}{(2\pi)^4} \frac{e^{ik(x-y)}}{-(k^0 - i\epsilon)^2 + \mathbf{k}^2 + m^2}$$

=
$$\int \frac{d^4k}{(2\pi)^4} \frac{e^{ik(x-y)}}{k^2 + m^2 + 2ik^0\epsilon}$$

=
$$\int \frac{d^4k}{(2\pi)^4} \frac{e^{ik(x-y)}}{k^2 + m^2 + i\,{\rm sign}(k^0)\epsilon}, \qquad (8.23)$$

where the last line follows because only the sign of the infinitesimal term matters (and not its magnitude). Similarly,

$$\Delta_{\rm adv}(x-y) = \int \frac{d^4k}{(2\pi)^4} \, \frac{e^{ik(x-y)}}{k^2 + m^2 - i\,{\rm sign}(k^0)\epsilon} \,. \tag{8.24}$$

2.

From the Srednicki solution manual:

(a)

The vertex joins four line segments. The vertex factor is $4!(i)(-\lambda/24) = -i\lambda$.

