HW#1

Due: September 8, 2009

Calculate the water fractional flow \( f_w \) as a function of water saturation \( S_w \) and plot \( f_w \) versus \( S_w \) for the following fluid system:

\[
k_{rw}^* = 0.1 \\
k_{row}^* = 0.7 \\
n_w = 1.5 \\
n_o = 2.5 \\
S_{orw} = 0.30 \\
S_{wr} = 0.25 \\
\mu_w = 0.6 \text{ cp} \\
\mu_o = 2.4 \text{ cp}
\]