(a)
$$(2^{1/3})^{1/8} = 2^{1/4} = 2^{1/42} = 2^{1/42}$$
(b) $(3^{-2} - 2^{-2})^{-2} = (3^{-2})^2 = 3^{-2} \times = 4^{-2} \times = 4$



