1) given that the absolute refractive indices of water and glass are 4/3 and 3/2 respectively. what is the refractive index of glass with the reference to water?

if we consider the refractive index of glass with the reference to water, the proportion appears as follows:

$$\frac{4}{3}:1 = \frac{3}{2}:x$$

$$\frac{4}{3}x = \frac{3}{2}$$

$$x = \frac{3}{2} \cdot \frac{3}{4}$$

$$x = \frac{9}{8}$$

c) 9/8