2.1 1)

α) $\boxed{(f\circ g)(x)} = f(g(x)) = g(x)+3 = (2x-6)+3 = \boxed{2x-3}$

β) $\boxed{(g\circ f)(x)} = g(f(x)) = 2f(x)-6 = 2(x+3)-6 = \boxed{2x}$

γ) $\boxed{(f\circ f)(x)} = f(f(x)) = f(x)+3 = (x+3)+3 = \boxed{x+6}$

2.1 2)

α) $\boxed{(f\circ g)(x)} = f(g(x)) = 2g(x)+1 = 2\dfrac{x-1}{3x+2}+1 = \dfrac{2x-2+3x+2}{3x+2} = \boxed{\dfrac{5x}{3x+2}}$

β) $\boxed{(g\circ f)(x)} = g(f(x)) = \dfrac{f(x)-1}{3f(x)+2} = \dfrac{2x+1-1}{3(2x+1)+2} = \dfrac{2x}{6x+3+2} = \boxed{\dfrac{2x}{6x+5}}$

γ) $\boxed{(g\circ g)(x)} = g(g(x)) = \dfrac{\dfrac{x-1}{3x+2}-1}{3\dfrac{x-1}{3x+2}+2} = \dfrac{\dfrac{x-1-3x-2}{\cancel{3x+2}}}{\dfrac{3x-3+6x+4}{\cancel{3x+2}}} = \boxed{\dfrac{-2x-3}{9x+1}}$

2.1 3)

$$\boxed{(f\circ g)(x)} = f(g(x)) = \frac{e^{\ln\left(\frac{x}{1+x}\right)}}{1-e^{\ln\left(\frac{x}{1+x}\right)}} = \frac{\dfrac{x}{1+x}}{1-\dfrac{x}{1+x}} = \frac{\dfrac{x}{\cancel{1+x}}}{\dfrac{1+\cancel{x}-\cancel{x}}{\cancel{1+x}}} = \boxed{x}$$