i. $\dfrac{1}{\sqrt{5}-1}$

ii. $\dfrac{2}{\sqrt{7}+\sqrt{3}}$

a.

$$(x+y)^2 - (x-y)^2 = 4xy$$

β. $\left(2013 + \dfrac{1}{2013}\right)^2 - \left(2013 - \dfrac{1}{2013}\right)^2.$