1. 
$$(2+\frac{1}{2+f}) = \frac{1}{f}$$

idea taken from adding fractions formula

 $(2+\frac{c}{d}) = (2+\frac{d}{d}) + (1+\frac{d}{d}) + (2+\frac{d}{d}) = (2+\frac{d}{d}) + (2+\frac{d}{d}) = (2+\frac{d}{d})$ 



