SR = Old Ratio − New Ratio

A = $\frac{3}{5}^{\times 2} - \frac{1}{2}^{\times 5}$

$= \frac{6-5}{10} = \frac{1}{10}$

B = $\frac{2}{5}^{\times 2} - \frac{1}{2}^{\times 5}$

$= \frac{4-5}{10} = -\frac{1}{10}$

(1) Goodwill without raising (~~Adjustment~~ through capital)

B cap a/c	Dr	5000	
To A capital			5000

(50,000 × $\frac{1}{10}$ = 5000)

(2) (i) When Goodwill raised

Goodwill a/c	Dr	50000	
To A's cap.			30000
To B's Cap.			20000

(Old Ratio 3:2)

(ii) Goodwill written off :

A's cap	Dr	2500	
B's cap.	Dr	2500	
To Goodwill a/c			5000

(New Ratio)