

1) what year did Ranvijan go to England?

- 1914

2) who came to the conference as a spouse?

- Cyndi Garvan

1. Find the exact value of the **infinite** continued-fraction

$$3 + 1/(3 + 1/(3 + 1/(3 + 1/(\dots)))) \dots$$

$$x = 3 + \frac{1}{3 + \frac{1}{3 + \dots}}$$

$$= 3 + \frac{1}{3 + \frac{1}{x}} = 3 + \frac{1}{\frac{3x+1}{x}}$$

$$= 3 + \frac{x}{3x+1} \Rightarrow x - 3 = \frac{x}{3x+1}$$

$$= (x-3)(3x+1) = x \Rightarrow 3x^2 - 9x - 3 = 0$$

$$x^2 - 3x - 1 = 0$$

$$\frac{3 \pm \sqrt{9+4}}{2} = \frac{3 + \sqrt{13}}{2}$$