$$(4.80)^{(4)}$$
  $(23)_{44}$   $(33)_{64}$   $(4)_{53}$   $(4)_{64}$   $(4)_{53}$   $(4)_{64}$   $(5)_{53}$   $(6)_{64}$ 

$$\frac{(\frac{6}{5})^{3}(\frac{25}{36})^{4}}{(\frac{5}{6})^{4}} = \frac{6^{3} \cdot 5^{6} \cdot 6^{4}}{8^{3} \cdot 5^{6} \cdot 8^{4}} = \frac{5}{6}$$

4.82) 
$$\frac{2}{5}$$
 X: hombres  $\frac{1}{3}$  M: rubias  $\frac{1}{4}$  h: rubios

(a) countas m hay? 
$$\frac{3}{5}X$$
, ospa que  $\frac{1}{3}\left(\frac{3}{5}\right)=\frac{1}{5}X$  son chicus robias  $\frac{1}{5}\left(\frac{1}{4}\right)=\frac{1}{10}X$  son chicos robios.

(b) 
$$\frac{3}{3} \times = 36 \times = 12.10$$

$$\frac{2+4+6+\cdots+36}{3+6+9+\cdots+54} = \frac{2(1+2+\cdots+18)}{3(1+2+\cdots+18)} \approx \frac{2}{3}$$

$$-2\frac{5}{6} \quad y \quad \frac{3}{5} \quad -2 - \frac{5}{6} + \frac{3}{5} = -2 - \frac{25}{30} + \frac{18}{30}$$

$$\frac{200+240}{1200} = \frac{440}{1200} = \frac{44}{120} = \frac{11}{30}$$

$$= \left(-2 - \frac{7}{30}\right) \div 2 = -1 - \frac{7}{60}$$

$$= -1 \frac{7}{60}$$

$$\frac{\frac{1}{3} \times + \frac{2}{5} \times}{2} \approx \frac{\frac{11}{15}}{2} = \frac{11}{30} \text{ mismed Parapresta} \dots$$

4.87) 
$$\frac{1}{2} \times \dots \frac{1}{3} (\frac{1}{2} \times) \dots$$

$$\frac{1}{2} \times \dots \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{6} \times \dots \times \frac{1}{6} \times \dots \times \frac{1}{6} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{8} \times \dots \times \frac{1}{24} \times \dots \times \frac{1}{8} \times$$

(a) 
$$1 + \frac{1}{2 + \frac{1}{2}} = 1 + \frac{1}{\frac{5}{2}} = \frac{2}{5} + \frac{5}{5} = \frac{7}{5}$$

$$(\frac{7}{5})^2 = \frac{49}{25} - 2$$

$$(\frac{7}{5})^2 = \frac{49}{25} - \frac{50}{25}$$

$$= -\frac{1}{25}$$

$$1 + \frac{1}{2 + \frac{2}{5}} = 1 + \frac{1}{\frac{12}{5}}$$

$$= 1 + \frac{5}{12} = \frac{17}{12}$$

$$\left(\frac{17}{12}\right)^{2} = \frac{289}{144} = \frac{1}{144}$$

(c) 
$$1 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2 + \frac{1}{2}}}} = 1 + \frac{1}{\frac{2^4 + \frac{5}{12}}{12}}$$

$$= \frac{24}{24} + \frac{12}{24} = \left(\frac{41}{24}\right)^2 = \frac{1681}{841} - \frac{1682}{841}$$
$$= \frac{-1}{841}$$

$$\frac{1}{5}M = \frac{1}{4}L = \frac{1}{3}N$$

$$0 = \frac{1}{5}M + \frac{1}{5}M + \frac{\Lambda}{5}M$$

$$0 = \frac{3}{5} M$$

$$\frac{1}{5}$$
 M = 0

$$\frac{1}{3}N=0$$

Total = L+M+N+0
$$= \frac{4}{5}M + \frac{3}{5}M + \frac{$$

$$\frac{3}{5} = \frac{12}{5} M$$

$$\frac{3}{5} = \frac{3.5}{4} = \frac{1}{4}$$

4.90)
(a) 
$$\frac{1}{a} + \frac{1}{b} = \frac{1}{2}$$

$$\frac{1}{3} + \frac{1}{2}$$

$$\frac{1}{2} - \frac{1}{3} = \frac{3-2}{6} = \frac{1}{6}$$

$$\frac{1}{\alpha} + \frac{1}{4} = \frac{1}{3}$$

$$\frac{1}{3} - \frac{1}{4} = \frac{4-3}{12} = \frac{1}{12}$$

(c) 
$$\frac{1}{a} + \frac{1}{b} = \frac{1}{4}$$
  $\frac{1}{5} + \frac{7}{5} = \frac{1}{4}$   $\frac{7}{5} = \frac{1}{4} - \frac{1}{5}$ 

$$\frac{1}{5}+?=\frac{1}{4}$$

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

$$=\frac{5-4}{20}=\frac{1}{20}$$

(F) (n+1) y n(n+1). la suma del reciproco de estos númeror es 1