

حاصل عبارت های زیر را بدست آورید.

$$\frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63} + \frac{1}{99} + \frac{1}{143} =$$

$$3 - \frac{1}{2} - \frac{1}{6} - \frac{1}{12} - \frac{1}{20} - \frac{1}{30} - \frac{1}{42} - \frac{1}{56} =$$

$$\frac{1}{5 \times 7} + \frac{1}{7 \times 9} + \frac{1}{9 \times 11} + \frac{1}{11 \times 13} + \frac{1}{13 \times 15} =$$

$$\frac{1}{10} + \frac{1}{40} + \frac{1}{88} + \frac{1}{154} + \frac{1}{238} =$$

$$\frac{1}{1} + \frac{1}{1+2} + \frac{1}{1+2+3} + \dots + \frac{1}{1+2+3+\dots+49+50} =$$

$$1 + \frac{1}{2} + \frac{2}{2} + \frac{1}{2} + \frac{1}{3} + \frac{2}{3} + \frac{3}{3} + \frac{2}{3} + \frac{1}{3} + \dots + \frac{1}{n} + \frac{2}{n} + \dots + \frac{n}{n} + \dots + \frac{2}{n} + \frac{1}{n} =$$

$$\frac{3^2 + 1}{3^2 - 1} + \frac{5^2 + 1}{5^2 - 1} + \frac{7^2 + 1}{7^2 - 1} + \dots + \frac{99^2 + 1}{99^2 - 1}$$