Tính biểu thức phân số

Bài 1. Tìm nhanh kết quả biểu thức sau:

a) $\frac{1995 \times 1994 - 1}{1993 \times 1995 + 1994}$

b) $\frac{399 \times 45 + 55 \times 399}{1995 \times 1996 - 1991 \times 1995}$

c) $\frac{1995 \times 1993 - 18}{1975 + 1993 \times 1994}$

d) $\frac{1996 \times 1995 - 996}{1000 + 1996 \times 1994}$

e) $\frac{16 \times 25 + 44 \times 100}{29 \times 96 + 142 \times 48}$

f) $\frac{1994 \times 1993 - 1992 \times 1993}{1992 \times 1993 + 1994 \times 7 + 1986}$

Bài 2. Tính

a) $\frac{373737}{474747} + \frac{5757}{4747}$

b) $\frac{1212}{1616} + \frac{1818}{3232} - \frac{2424}{6464}$

c) $15 \text{ x } \frac{2121}{4343} + \frac{222222}{434343} \text{ x } 15$

d) $\frac{\frac{1}{4} + \frac{1}{24} + \frac{1}{124}}{\frac{3}{4} + \frac{3}{24} + \frac{3}{124}} + \frac{\frac{2}{7} + \frac{2}{17} + \frac{2}{127}}{\frac{3}{7} + \frac{3}{17} + \frac{3}{127}}$

Bài 3. Tính theo cách thuận lợi nhất

a) $\frac{1}{2} \text{x } \frac{12}{13} + \frac{1}{3} \text{x } \frac{12}{13} + \frac{1}{4} \text{x } \frac{12}{13}$

b) $(1 - \frac{1}{2}) \text{ x } (1 - \frac{1}{3}) \text{ x } (1 - \frac{1}{4}) \text{ x } (1 - \frac{1}{5})$

c) $\frac{75}{100} + \frac{18}{21} + \frac{19}{32} + \frac{1}{4} + \frac{1}{7} + \frac{13}{32}$

d) $\frac{4}{6} + \frac{7}{13} + \frac{17}{9} + \frac{7}{3} + \frac{19}{13} + \frac{19}{9}$

d) $(\frac{1}{6} + \frac{1}{10} + \frac{1}{15}) : (\frac{1}{6} + \frac{1}{10} - \frac{1}{15})$

e) $(\frac{1}{2} - \frac{1}{3} + \frac{1}{4} - \frac{1}{5}) : (\frac{1}{4} - \frac{1}{5})$

Bài 4. Tính theo cách thuận lợi nhất

a)	$\frac{5 + 8 + 11 + 14 + \cdots + 68 + 71}{2 \text{ x } 43 + 3 \text{ x } 43 + 43 \text{ x } 5 + 7}$	b)	$\frac{8 \text{ x } 12 \text{ x } 32 + 4 \text{ x } 27 \text{ x } 24 + 16 \text{ x } 41 \text{ x } 6}{6 + 10 + 14 + 18 + \cdots + 62 + 66 - 96}$
c)	$\frac{4 \text{ x } 114 + 45 \text{ x } 114 + 114}{(145 \text{ x } 99 + 145) - (143 \text{ x } 101 - 143)}$	d)	$\frac{(45 + 75) \text{x } 66 + (75 + 45) \text{x } 34}{1 + 3 + 6 + 10 + \cdots + 36}$
e)	$\frac{(145 \text{ x } 99 + 145) - (143 \text{ x } 101 - 143)}{4 \text{ x } 113 \text{ x } 25 - 5 \text{ x } 112 \text{ x } 20}$	f)	$\frac{1414 + 1515 + 1616 + 1717 + 1818 + 1919}{2020 + 2121 + 2222 + 2323 + 2424 + 2525}$