DIVISIÓN DE FRACCIONES ALGEBRAICAS

Simplificar las siguientes fracciones algebraicas

(1) $\frac{35a^3}{18b^3} : \frac{14ab^2}{9b^3}$

(2) $\frac{a^5b^8c^7}{a^4b^6c^{10}} : \frac{a^6b^8c^9}{a^3b^2c^5}$

(3) $\frac{24ab^3x^2y}{54a^3bxy^4} : \frac{9y^3}{x^3}$

(4) $\frac{a^2bx^2}{ab^3y^3} : \frac{3ax^2}{b^2y^3}$

(5) $\frac{6x^2+9xy}{a^3} : \frac{a}{14x^3+21x^2y}$

(6) $\frac{a^3+a}{a^2-a} : \frac{a^3-a^2}{a^2-2a+1}$

(7) $\frac{m^2+8m+16}{m^2+2m-8} : \frac{m^2-2m-3}{m^2-3m+2}$

(8) $\frac{c^2-6c+5}{c^2-7c+10} : \frac{c^2+8c+7}{c^2+5c-14}$

(9) $\frac{x^2+10x+24}{x^2+3x-18} : \frac{x^2-4x+3}{x^2-6x+9}$

(10) $\frac{m^2+14m+48}{m^2+4m-21} : \frac{m^2+4m-32}{m^2+3m-28}$

FRACCIONES COMPLEJAS

11 $\dfrac{1+\frac{2}{x}}{1-\frac{3}{x}}$

12 $\dfrac{\frac{x}{x+y}-\frac{y}{x-y}}{\frac{x}{x+y}+\frac{y}{x-y}}$

13 $\dfrac{1+\frac{3}{x}}{x+\frac{2}{x}}$

14 $\dfrac{\frac{x}{x-y}-\frac{y}{x+y}}{\frac{1}{x-y}+\frac{1}{x+y}}$

15 $\dfrac{x^2-25}{\frac{1}{x}-\frac{1}{5}}$

16 $\dfrac{x+3-\frac{16}{x+3}}{x-6+\frac{20}{x+6}}$

17 $\dfrac{x^2-36}{\frac{1}{6}-\frac{1}{x}}$

18 $\dfrac{t-5+\frac{25}{t-5}}{t+3+\frac{10}{t-3}}$