



CLASSE 5<sup>A</sup> GINNASIO

15 Settembre 2008

Frazioni algebriche (ripasso)

COGNOME \_\_\_\_\_ NOME \_\_\_\_\_

1.  $\frac{x^2 y - y^3}{x^2 - 2xy + y^2} : \frac{x^2 + 2xy + y^2}{x^3 - xy^2}$  \_\_\_\_\_ / 4

2.  $\left( \frac{1}{2a-1} - \frac{1}{2a+1} \right) : \left( \frac{b}{2a-1} + \frac{b}{2a+1} \right)$  \_\_\_\_\_ / 4,5

3.  $\frac{x^2 - 1}{x} - \frac{x^2}{x+1} + \frac{1}{x^2 + x} - \frac{x-1}{x+1}$  \_\_\_\_\_ / 3

4.  $\left( 2 + \frac{x^2 + y^2}{xy} \right)^2 \cdot \left[ \frac{x-y}{x+y} + \frac{y^2}{(x+y)^2} \right]^2 : \frac{x^2}{y^2}$  \_\_\_\_\_ / 3,5

5.  $1 + y \cdot \left[ \frac{5}{6y} + \frac{x}{3y^2 - 2x^2} \cdot \left( \frac{2x+y}{2x} - \frac{x+3y}{3y} \right) \right]$  \_\_\_\_\_ / 3,5

6.  $\frac{1 + \frac{1}{xy}}{x-y} \cdot \left( x + \frac{1 - \frac{x}{y}}{\frac{1}{y} + x} \right) : \frac{\frac{1}{x^2} + 1}{1 - \frac{y}{x}}$  \_\_\_\_\_ / 6