

Multiplication/Division
$$\frac{\chi^{2}-16}{\chi^{3}+64} \cdot \frac{\chi^{3}-4\chi^{2}+16\chi}{4-\chi} = \frac{2-7}{8.5} = \frac{3.8}{5.7}$$
(x+4)(x-1)
$$\frac{\chi(\chi^{2}-1)}{\chi(\chi^{2}+1)} \cdot \frac{\chi(\chi^{2}-4\chi+16)}{\chi(\chi^{2}-4\chi+16)} = \frac{\chi(\chi^{2}-4\chi+16)}{\chi(\chi^{2}-4$$

$$\frac{4y^{2}-9}{y^{2}+6y+9} = \frac{8y-12}{2y^{2}+5y-3}$$

$$\frac{4y^{2}-9}{y^{2}+6y+9} = \frac{2y^{2}+5y-3}{8y-12}$$

$$\frac{2y^{2}+6y+9}{4(2y-1)(y+3)} = \frac{(2y-1)(y+3)}{4(2y+3)}$$

$$\frac{(2y-1)(y+3)}{4(2y+3)} = \frac{(2y+3)(2y-1)}{4(y+3)}$$

$$\frac{3y+1}{2y^{-10}} - \frac{15}{20} + \frac{14}{20} = \frac{29}{20}$$

$$\frac{3y+1}{2y^{-10}} - \frac{y+4}{y^{2-2y-15}} \leftarrow \frac{29}{20}$$

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$$\frac{3y+1}{2y^{2-10}} + \frac{29}{20} + \frac{29}{20}$$

$$\frac{3y+1}{20} + \frac{29}{20} + \frac{29}{20}$$

$$\frac{2x+1}{x^{2}+6x+9} + \frac{x+2}{4-x^{2}}$$

$$(x+3)(x+3) = -(x^{2}-9)$$

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$$2x^{2}-5x-3 + -x^{2}-3x-2x-6$$

$$(x+3)^{2}(x-3) + -(x^{2}-3x-2x-6)$$

$$(x+3)^{2}(x-3) = -(x+3)^{2}(x-3)$$

$$x^{2}-10x-9 = -(x+3)^{2}(x-3)$$