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Problems 1-5 : Perform the indicated multiplication and simplify .Problem 1 : $(x^3/9y^2) \cdot (27y/x^5)$ Problem 2 : $[(x^2 + 2x - 3)/(x^2 + 8x + 16)] \cdot [(3x + 12)/(x - 1)]$ Problem 3 : $[4x/(x^2 - 4)] \cdot [(x + 2)/16x]$ Problem 4 : $[(x^2 - 25)/(x^2 - 16)] \cdot [(x + 4)/(x + 5)]$ Problem 5 : $[(x^2 - x - 12)/(x^2 - 9)] \cdot [(3 + x)/(4 - x)]$ Problems 1-5 : Perform the indicated division and simplify

:Problem 6 : $(14x^4/y) \div (7x/3y^4)$ Problem 7 : $[6/(28x + 4)] + [6/(35x + 5)]$ Problem 8 : $[4x/(x - 6)] + [4x/(8x - 48)]$ Problem 9 : $[7x^2/(7x^3 + 56x^2)] + [2/(x^2 + 7x - 8)]$ Problem 10 : $[(x - 4)/(x^2 - 4)] + [(x^2 - 3x - 4)/(x^2 + 5x + 6)]$ Detailed Answer Key 1. Answer : = $(x^3/9y^2) \cdot (27y/x^5) = (x^3 \cdot 27y) / (9y^2 \cdot x^5) = 3/x^2y^2$. Answer : = $(x^2 + 2x - 3)/(x^2 + 8x + 16) \cdot [(3x + 12)/(x - 1)]$ Factor. = $[(x - 1)(x + 3)/(x + 4)] \cdot [3(x + 4)/(x - 1)] = [3(x - 1)(x + 3)(x + 4)] / [(x + 4)2(x - 1)]$ Cancel common factors. = $3(x + 3) / (x + 4)$ 3. Answer : = $[4x/(x^2 - 4)] \cdot [(x + 2)/16x] = [4x(x + 2)] / [16x(x^2 - 4)]$ Factor. = $[4x(x + 2)] / [16x(x + 2)(x - 2)]$ Cancel common factors. = $1/[4(x + 2)]$ 4. Answer : = $[(x^2 - 25)/(x^2 - 16)] \cdot [(x + 4)/(x + 5)]$ Factor. = $[(x - 5)(x + 5)/(x + 4)] \cdot [(x + 4)/(x - 4)(x + 5)]$ Cancel common factors. = $(x - 5)/(x - 4)$ 5. Answer : = $[(x^2 - x - 12)/(x^2 - 9)] \cdot [(3 + x)/(4 - x)] = [(x^2 - x - 12)(3 + x)] / [(x^2 - 9)(4 - x)]$ Factor. = $[(x - 4)(x + 3)(x + 3)] \cdot [(x + 3)(x - 3)(4 - x)] / [(x - 4)(x + 3)(x + 3)] \cdot [(x + 3)(x - 3)(x - 4)]$ Cancel common factors. = $(x + 3) / [(x - 3)(x - 4)]$ 6. Answer : = $(14x^4/y) \div (7x/3y^4) = (14x^4/y) \cdot (3y^4/7x) = (14x^4 \cdot 3y^4) / (7x \cdot y)$ Cancel common factors. = $6x^3y^3$ 7. Answer : = $[6/(28x + 4)] + [6/(35x + 5)]$ Invert and multiply. = $[6/(28x + 4)] \cdot [(35x + 5)/6] = [6(35x + 5)] / [6(28x + 4)]$ Simplify. = $(35x + 5)/(28x + 4)$ Factor. = $[5(7x + 1)]/[4(7x + 1)]$ Cancel common factors. = $5/4$ 8. Answer : = $[4x/(x - 6)] + [4x/(8x - 48)]$ Invert and multiply. = $[4x/(x - 6)] \cdot [(8x - 48)/4x] = [4x(8x - 48)] / [4x(x - 6)]$ Simplify. = $(8x - 48)/(x - 6)$ Factor. = $8(x - 6)/(x - 6)$ Cancel common factors. = 8 9. Answer : = $[7x^2/(7x^3 + 56x^2)] + [2/(x^2 + 7x - 8)]$ Invert and multiply. = $[7x^2/(7x^3 + 56x^2)] \cdot [(x^2 + 7x - 8)] / [2(7x^3 + 56x^2)]$ Factor. = $[7x^2(x - 1)(x + 8)] / [14x^2(x + 8)]$ Cancel common factors. = $(x - 1)/2$ 10. Answer : = $[(x - 4)/(x^2 - 4)] + [(x^2 - 3x - 4)/(x^2 + 5x + 6)]$ Invert and multiply = $[(x - 4)/(x^2 - 4)] \cdot [(x^2 + 5x + 6)/(x^2 - 3x - 4)] = [(x - 4)(x^2 + 5x + 6)] / [(x^2 - 4)(x^2 - 3x - 4)]$ Factor. = $[(x - 4)(x + 2)(x + 3)] / [(x + 2)(x - 4)(x + 1)]$ Cancel common factors. = $(x + 3) / [(x - 2)(x + 1)]$ Apart from the stuff given above, if you need any other stuff in math, please use our google custom search here. Kindly mail your feedback to v4formath@gmail.com We always appreciate your feedback. ©All rights reserved. onlinemath4all.com If you thought that adding and subtracting rational expressions was difficult, you are in for a nice surprise. Multiplying and dividing rational expressions is far easier. In fact, learning both multiplying and dividing rational expressions boils down to learning only how to multiply them. Division only involves one extra step. Consider how we multiply regular fractions. We multiply straight across the top, straight across the bottom, then we simplify. East enough, right? For instance consider the problem $(\frac{15}{28}) \cdot (\frac{7}{15})$ To multiply these two fractions, we simply multiply across the top, and across the bottom, like so $(\frac{15}{28}) \cdot (\frac{7}{15}) = \frac{15 \cdot 7}{28 \cdot 15}$ Below you can download some free math worksheets and practice.

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