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1901571

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4.

i. $x^8 \times x \times x^9$

$8+1+9=18$

$= x^{18}$

ii. $(2x^3)^3 = 8x^9$

$2^3=8$

$3 \times 3 = 9$

$8x^9 = 8x^9$

iii. $\frac{x^{12} \times x^7}{x}$

$x^{12} \times x^7 = 12+7$

$= x^{19}$

iv. $5x^2 \times 3x^4$

$= 5 \times 3 = 15$

$= 2+4=6$

$= 15x^6$

v. $\frac{10x^8}{2x^5} = 5x^3$

5.

i. $2(x^2+y^2) + x^2(x-y) + 3xy - x^3$

$= 2x^2 + 2y^2 + x^3 - xy + 3xy - x^3$

$= 2x^2 + 2y^2 + 2xy$

$= 2x^2 + 2xy + 2y^2$