Polynomial SLO Review

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1. Solve for the ?

$(3x^3 + 2x^2 - x) - (?) = x^3 - x^2 - 3x + 1$

Remember: $5 - x = 7 + x$

$+x \quad +x$

$5 = 7 + x$

$-7 \quad -7$

$x = -2$

$3x^3 + 2x^2 - x$

$-1x^3 + 1x^2 + 3x - 1$

$2x^3 + 3x^2 + 2x - 1$

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Simplify

3. $(7x^3 - 2x^4) - (8x^3 - 6x^4 + 5x) + (6 - 3x^2 - 5x^4)$

$-2x^4 + 7x^3 - 3x^2 - 5x + 6$

$+6x^4 - 8x^3$

$-5x^4$

$-x^4 - x^3 - 3x^2 - 5x + 6$

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5. $(6k^2 + 2k - 3)(-4k + 3)$

$-24k^3 + 18k^2$
$-8k^2 + 6k$
$+12k - 9$

$-24k^3 + 10k^2 + 18k - 9$

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Remember that f(x) * g(x) is the same as previous problems

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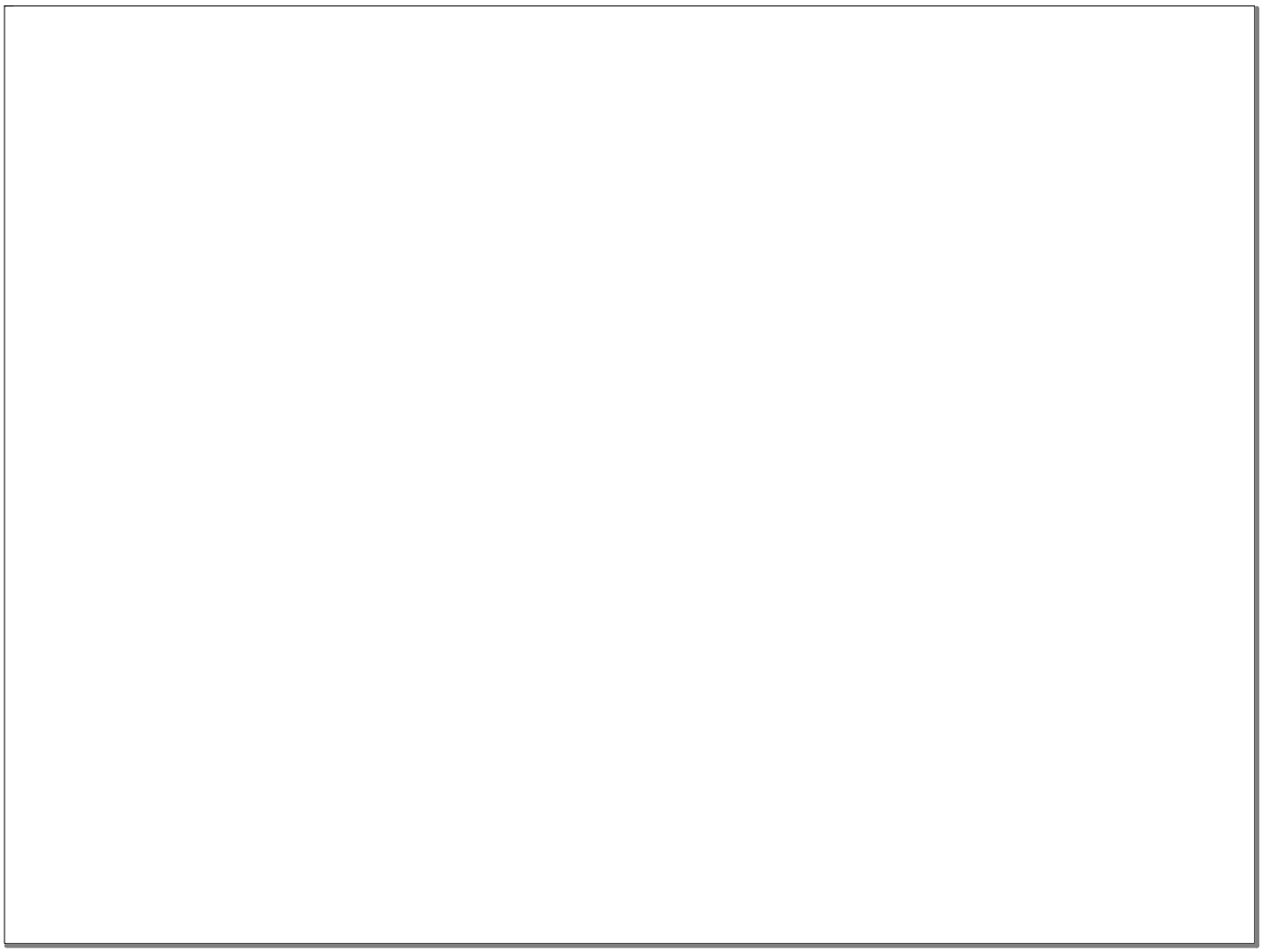

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10. $(q^{1/4})^{1/2}$

$q^{\frac{1}{8}}$

BW

$\frac{1}{4} \cdot \frac{1}{2} = \frac{1}{8}$

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12. $k^{3/4}$

$\sqrt[4]{k^3}$

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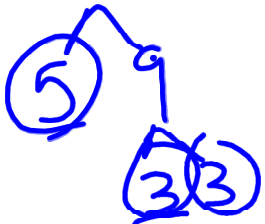
14. $-\sqrt{5} - \sqrt{2} - \sqrt{45}$



$-1\sqrt{5} - \sqrt{2} - 3\sqrt{5}$

$\boxed{-4\sqrt{5} - \sqrt{2}}$

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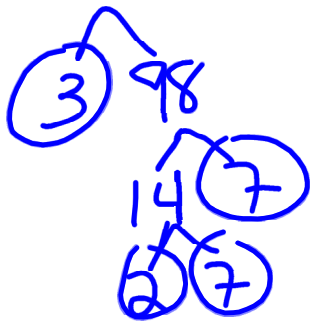
17. $\sqrt{294u^4v^3}$ $= 7u^2v\sqrt{6v}$



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