

Homework Check

1. $3m^3 + m^2 + 39m - 3$
2. $6x^2 - 2x + 5$
3. $3h^2 + 8h + 9$
4. $-2x^2y + xy^2 + 2xy$
5. $13n^2 + 12$
6. $9d^7 - 4d^4 + 10d^2e + 12e^2 - 17$
7. $-5h^3 - 5h^2 + 118h + 16$
8. $-9f^2g + 43fg^2 + 79f - 51g + 1$

§13-4 Subtracting Polynomials

- When you subtract polynomials you must add the opposite first, then collect *like terms*.

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

$$\begin{array}{r} 5x^3 + 2x^2 - x + 7 \\ - (0x^3 + 3x^2 - 4x + 7) \\ - (-x^3 + 4x^2 + 0x - 8) \\ \hline \end{array} \quad \rightarrow \quad \begin{array}{r} 5x^3 + 2x^2 - x + 7 \\ -0x^3 - 3x^2 + 4x - 7 \\ +x^3 - 4x^2 - 0x + 8 \\ \hline 6x^3 - 5x^2 + 3x + 8 \end{array}$$

Your Turn!

$$(-8x^3 + x - 9x^2 + 2) - (8x^2 - 2x + 4) - (4x^2 - 1 - 3x^3)$$

Try another!

$$(-20x^4 + 9x^2 - 13) - (7x^2 - 5x + x^3) - (9x^5 - 7x^2 + 42x^3 - 12)$$

One more!

$$(-18m^6 + 17m^2 - 25m^4) - (13n^2 + 5m - 7n^3) - (8m^4 + 12n^2 + 15m^6 + 19n)$$

Tomorrow

- Your test tomorrow will cover lessons 12-1 through 12-7. Use your Quizzes as study guides!
- Tonight, you may choose to spend time studying for the test, then complete the homework for tonight tomorrow night instead.
- Make sure to review the daily TISK problems so that you're prepared for the Review section of your test.
