After having read the chapter *pencil in hand* and done this HOMEWORK:

**i.** What’s *the* most important *idea* in the CHAPTER? Be *brief* and *specific*.

**ii.** What from this CHAPTER will you need to work on for the EXAM?

a.

b.
\textbf{Hw 14-1.} Identify the quotient of $\frac{-6x^3 - 17x^2 + 23x + 6}{-3x + 2}$

a. 12 \hspace{1em} b. $+2x^2 + 7x - 3$ \hspace{1em} c. $-2x^2 + 4x - 5$ \hspace{1em} d. $+2x^2 - 4x + 4$

\hspace{1em} e. None of the previous choices

\textbf{Hw 14-2.} Identify the remainder of $\frac{-6x^3 + 19x^2 - 18x - 3}{2x - 5}$

a. $-4x + 4$ \hspace{1em} b. $+2x + 7$ \hspace{1em} c. $+17$ \hspace{1em} d. $-23$

\hspace{1em} e. None of the previous choices

\textbf{Hw 14-3.} Identify the remainder of $\frac{10x^5 - 25x^3 - 8x^2 + 13}{5x^3 - 4}$

a. $+2x^2 - 5$ \hspace{1em} b. $-7$ \hspace{1em} c. $-2x - 3$ \hspace{1em} d. $+2$

\hspace{1em} e. None of the previous choices

\textbf{Hw 14-4.} Approximate $\frac{-6x^4 - 2x^3 + 11x^2 - 16x + 18}{-3x^2 + 2x - 4}$ with a \emph{quadratic} polynomial

a. $-2x^2 - 2x + 3$ \hspace{1em} b. $+2x^2 + 2x - 5$ \hspace{1em} c. $-2x^2 + 4x - 3$ \hspace{1em} d. $+2x^2 - 2x + 5$

\hspace{1em} e. None of the previous choices

\textbf{Hw 14-5.} Approximate $\frac{6x^3 + 18x^2 - 15x + 2}{-3x^2 - 4}$ with an \emph{affine} polynomial

a. $-23x - 22$ \hspace{1em} b. $-2x^2 + 3x - 5$ \hspace{1em} c. $+2x^2 - 3$ \hspace{1em} d. $-2x - 6$

\hspace{1em} e. None of the previous choices