Homework: _____

Learning Targets:

    4c.   Factor polynomial functions by graphing, grouping, and quadratic techniques.

When factoring polynomials, you have to factor _____. Sometimes you will

have to factor _____ times to find all the factors. When you are working with _____

terms, it is good use the _____ method, where you make 2 sets of _____

$$x^3 - 49x \qquad\qquad\qquad\qquad 2x^3 + 6x^2 + 4x$$

Factoring by Special Factors (Squares)

$$x^4 - 8x^2 + 16 \qquad\qquad\qquad\qquad 625x^8 - 256$$

Factoring by Grouping

$$x^3 + 5x^2 - 4x - 20 \qquad\qquad\qquad\qquad 2x^3 + 5x^2 - 8x - 20$$