

MATH 4306 Lab Activities 11
Submissions due Thursday, April 25, 2002

All group members must sign the submission attesting to the fact that they participated fully in doing this assignment.

Be sure to start ISETL with the .ini file that will give you access to the funcs as discussed in class last time. You should be able to start the activities immediately after arriving in class.

1. Copy the funcs from the wiki page <http://www.sci.tamucc.edu/wiki/Math4306/PolynomialFuncs> into an active ISETL session per the instructions at the top of that page. Run those funcs with appropriate inputs (as suggested in Activity 6.1.1.3 and 5) to determine exactly what each func does.

SUBMIT: A statement that you have successfully run the funcs on appropriate inputs, and an identification of each of the funcs (by name) with the following descriptions

- Finds the degree of a polynomial
- Finds the sum of two polynomials
- Finds the product of two polynomials
- Finds the standard form for a polynomial
- Finds the negative of a polynomial
- Finds the leading monomial of a polynomial
- Finds the remainder of one polynomial divided by another
- Creates a monomial
- Finds the difference between two polynomials
- Finds the quotient of one polynomial divided by another
- Finds if an object is zero as an integer or polynomial

2. Do the activity in Section 6.1.1, #1, p 193.

SUBMIT: The formula relating a,b,q,r, noting any restrictions on r.

3. Do the activity in Section 6.1.1, #7, p. 197.

SUBMIT: A statement that your new version of the func dwr works properly.

4. Do the activity in Section 6.1.1, #8, p. 197. Hint: this func can be very short.

SUBMIT: The results of applying Euc_alg to the examples in Activities 1 and 5. Also report the meaning you give to the answers you get.

5. Do the activity in Section 6.1.1, #9, p. 197.

SUBMIT: Nothing