

## MAT 131 Homework Assignment 1

1. Do the following problems in the textbook:  
**Section 1.1** 12, 16, 30, 32, 41, 56;  
**Section 1.2** 13;  
**Appendix C** 40;  
**Section 1.6** 26, 50, 56;
2. Find the line passing through the point  $(4, 5)$  with slope 2;
3. Sketch the graph of the polynomial  $f(x) = 2x^2 - 7x + 3$ ;
4. Solve the following inequalities:
  - a)  $x^2 - 4x + 5 > 0$ ;
  - b)  $-3x^2 + 2x + 1 \leq 0$ .