# Math 160 Quiz 7 Name: _____

**July 25, 2002**

**This quiz is worth 10 points. Show all work for credit.**

1. Find a polynomial $P(x)$ such that $P(x)$ is a quadratic with zeros at 4 and 2 and $P(5) = 2$.

2. Solve Algebraically:

   (a) $1 + \sqrt{2x} - \sqrt{x+7} = 0$

   (b) $3x^{\frac{1}{4}}(x+3)^{\frac{-2}{3}} - 4x^{\frac{-3}{4}}(x+3)^{\frac{1}{3}} = 0$

3. Give the End-Behavior Model of $(x^2+3)(5x^3+7)$.

4. (Bonus) If box A is 15% bigger then box B, how much smaller is box B then box A?