QUIZ 6 - MATH 102 Your Name:_____

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Factor the following polynomials completely:

(a)
$$x^7 - 4x^6 =$$

(b) $18x^6 + 24x^3 + 8 =$

(c)
$$-9x^2 + 33x + 12 =$$

2. Solve the following equations:

(a)
$$x^3 + 9x^2 + 20x = 0$$
.

(b)
$$(x+2)(x+3) = 20$$