Name: _____

Quiz 3

This quiz is graded out of 15 marks. No books, watches, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. Factor completely:

    a. *(3 marks)* $2x^6 + 8x^5 - 42x^4$

    b. *(2 marks)* $64x^2 - 100$

Question 2. *(5 marks)* Add or subtract and simplify completely:

$$\frac{x^2 - 11}{x^2 + 7x + 6} - \frac{x}{x+6} + \frac{2}{x+1}$$

Question 3. Simplify completely:

    a. *(2 marks)* $4\sqrt{12} - \sqrt{27} + 2\sqrt{48}$

    b. *(3 marks)* $(\sqrt{5} - 2\sqrt{6})^2$