

Math 102 Quiz 6 Make-up

due Monday March 12, 2012 before the final.

name_____

Instructions: Show your work, and box your final answer.

If you encounter an imaginary number, say so (don't try to finish the problem).

1. Factor as much as possible:

(a) $4(s - 3) - a(s - 3)$

(b) $q^2 - 3q + 75$

2. Find the roots of:

(a) $y = x^2 + 25$

(b) $y = x^3 - x^2 - 20x$

3. Multiply and collect like terms:

(a) $(2a + b)(a - ab^2 + b)$

(b) $(6r - 2s)^2$

4. Divide: $(k^3 + k^2 - 15k + 20) \div (k - 4)$.

5. Solve the following equations. Check your solutions.

(a) $-q^2 + 7q = 3q - 5$

(b) $z^2 - 36 = -9z$

(c) $(w - 2)(w + 2)(w + 1) = 0$