

Math 095
Make up opportunity for Quiz 5

Take worksheets to tutor. (Pages 25, 26, 27, 31, 32, 35 of Math 099 packet)

Have tutor sign and date THIS SHEET verifying that YOU did the work.

Tutor signature

Date

Print tutor name so I can read it.

When worksheets and this sheet are turned in to me, you can do a makeup quiz.
You have one week to get the worksheets done.

Section 4.2 **Pages 275—276**

Factor each trinomial COMPLETELY

1. $x^2 + 7x + 6$

9. $x^2 + 5x + 2$

13. $a^4 - 2a^2 - 15$

29. $r^2 - 16r + 48$

33. $3x^2 + 9x - 30$

45. $4x^2y + 4xy - 12y$

Section 4.3**Pages 281—282***Factor each trinomial COMPLETELY*

9. $8y^2 - 17y + 9$

17. $x + 3x^2 - 2$

29. $3a^2 + 10ab + 3b^2$

37. $21x^2 - 48x - 45$

Section 4.4**Pages 285—286***Factor each polynomial by grouping*

1. $x^2 + 3x + 2x + 6$

5. $y^2 + 8y - 2y - 16$

Section 4.5

Pages 291—295

<i>Determine if each trinomial below is a perfect square trinomial</i>	<i>Factor each polynomial below COMPLETELY</i>
1. $x^2 + 16x + 64$	17. $x^2 - 16x + 64$
5. $m^2 - 2m + 1$	25. $16y^2 + 40y + 25$
9. $4x^2 + 12xy + 8y$	45. $9x^2 - 16$
	53. $x^2 - 169y^2$

Chapter 5—Rational Expressions

Section 5.1, Pages 335—337

Find the value of these expressions when $x = 2$, $y = -2$, $z = -5$

1. $\frac{x+5}{x+2}$

5. $\frac{x^2+8x+2}{x^2-x-6}$

Find any real numbers for which the expression is undefined

9. $\frac{7}{2x}$

13. $\frac{4x^2+9}{2x-8}$

Simplify each expression. State any real numbers for which it is undefined

21. $\frac{2}{8x+16}$

25. $\frac{2x-10}{3x-30}$

49. $\frac{2-x}{x-2}$

53. $\frac{m^2-6m+9}{m^2-9}$

Section 5.2, Pages 345—347*Multiply or divide as indicated; simplify if possible*

1. $\frac{3x}{y^2} \cdot \frac{7y}{4x}$

9. $\frac{6x+6}{5} \cdot \frac{10}{36x+36}$

17. $\frac{5x^7}{2x^5} \div \frac{10x}{4x^3}$

21. $\frac{(x-6)(x+4)}{4x} \div \frac{2x-12}{8x^2}$

29. $\frac{x^2+7x+10}{x-1} \div \frac{x^2+2x-15}{x-1}$

43. $\frac{a^2+7a+12}{a^2+5a+6} \cdot \frac{a^2+8a+15}{a^2+5a+4}$

NOTE: Solution "41" is really problem 43

Section 5.5**Pages 369—370***Solve each equation and check the solution*

1. $\frac{x}{5} + 3 = 9$

5. $2 - \frac{8}{x} = 6$

9. $\frac{a}{5} = \frac{a-3}{2}$

13. $\frac{2}{y} + \frac{1}{2} = \frac{5}{2y}$

29. $\frac{2}{x-2} + 1 = \frac{x}{x+2}$

33. $\frac{x+1}{3} - \frac{x-1}{6} = \frac{1}{6}$

37. $\frac{4r-4}{r^2+5r-14} + \frac{2}{r+7} = \frac{1}{r-2}$

45. *Solve for the indicated variable*
 $i = \frac{A}{t+B}$ for t (rainfall intensity)