

MATH 1314

Test 2 Review (Alternate)

10 Multiple Choice Questions (60 points: Test 2)

4 Free Response Questions (40 points: Test 2 FR)

$$\frac{5}{3x} - \frac{7}{2x} = 5$$

$$\frac{8 - \sqrt{-16}}{\sqrt{-9} \cdot \sqrt{-4}}$$

$$2x^2 + 2x - 15 = 10x + 49$$

$$|2x + 6| - 7 \geq 8$$

$$\left| \frac{1}{2}x + 7 \right| - \frac{5}{3} = 7$$

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$$x^4 + 2x^2 - 35 = 0$$

$$2x + 7y = 9$$

$$x - 4y = 2$$

$$|x + 8| + 4 \leq 2$$

$$8 \leq 3x - 5 < 73$$

$$x^2 - 4x + 3 \geq 0$$

$$\frac{x - 5}{(x - 8)(x + 2)} \geq 0$$

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Solve by Completing the Square:

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$$x^2 - 12x + 44 = 0$$

$$-2|x + 4| \leq 12$$

$$\sqrt{x + 11} - 5 = x$$

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