

Take Home Quiz # 3

- Justify and show the means by which you arrive at your answers using equations, pictures, calculations, geometry, algebra steps, and/or technology. *You will not receive full credit if your answer is not supported by work that is legible and organized.*
- Place a **box** around your final answer. *It won't be graded if you do not do this!*
- Make your answers and their presentation in a professional and easily understandable format ... make this your clearest and best work! *Points will be deducted for disorganized, sloppy work.*

9.1 (And Factoring Review)

1. Solve using the "ac" method: $2x^2 - 3x - 2 = 0$

Solve using the principle of square roots. Write your answer in simplest radical form.

2. $(2x + 3)^2 = 20$

3. $6x^2 + 60 = 6$

9.2

Solve the quadratic equation by completing the square:

4. $x^2 + 8x - 5 = 0$

5. $2x^2 + 3x - 4 = 0$

9.3

Solve using the quadratic formula:

6. $5x^2 + 6x - 8 = 0$

7. $2x(x + 4) = 3x - 3$

8. $\frac{x^2}{3} - x - \frac{1}{6} = 0$