Unit 4 HW 16 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:

**Simplify each expression. Give exact answers**

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**For #7-9 find the x-intercepts of all 3 quadratic equations. Give EXACT answers.**

**USE EACH METHOD EXACTLY ONCE (factoring, completing the square, quadratic formula).**

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**Find the x-intercepts by factoring Find the x-intercepts by completing the square**

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**Find the x-intercepts by quadratic Formula Graph the quadratic equation**

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1. Mr. Belby climbs to the top of the school and kicks a soccer ball off the roof with an initial velocity of 58 feet per second from a height of 32 feet.
   1. How long will it take the ball to reach its maximum height?
   2. What is the soccer balls maximum height?