

NAME:

DATE:

A2.Q2.BERMELLEEMBO: SOLVING QUADRATIC EQUATIONS BY GRAPHING

**DAY EQ3
(EQUATIONS)**

MASTERY PRACTICE

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

1. $0.5x^2 + x - 4 = 0$ *Be sure to draw a quick sketch to support your answer(s).*

ALSO CIRCLE: A. TWO REAL SOLUTIONS B. ONE REAL REPEAT SOLUTION C. NO REAL SOLUTION

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

2. $2x^2 + 4x + 6 = 0$ *Be sure to draw a quick sketch to support your answer(s).*

ALSO CIRCLE: A. TWO REAL SOLUTIONS B. ONE REAL REPEAT SOLUTION C. NO REAL SOLUTION

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

3. $2x^2 - 8x + 8 = 0$ *Be sure to draw a quick sketch to support your answer(s).*

ALSO CIRCLE: A. TWO REAL SOLUTIONS B. ONE REAL REPEAT SOLUTION C. NO REAL SOLUTION

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

4. $2x^2 - 4x = 6$ *Be sure to draw a quick sketch to support your answer(s).*

ALSO CIRCLE: A. TWO REAL SOLUTIONS B. ONE REAL REPEAT SOLUTION C. NO REAL SOLUTION

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

5. $x^2 = 3x - 7$ *Be sure to draw a quick sketch to support your answer(s).*

ALSO CIRCLE: A. TWO REAL SOLUTIONS B. ONE REAL REPEAT SOLUTION C. NO REAL SOLUTION

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

6. $-x^2 - 9 = 6x$ *Be sure to draw a quick sketch to support your answer(s).*

ALSO CIRCLE: A. TWO REAL SOLUTIONS B. ONE REAL REPEAT SOLUTION C. NO REAL SOLUTION

Solve the equation by using the **graphing method**. BOX YOUR ANSWER

7. $0.2x^3 - 1.6x^2 + 0.8x + 9.6 = 0$ Be sure to draw a quick sketch to support your answer(s).

8. Simplify the expression that includes the imaginary number i “add cinnamon”

A. $4i(7i)$

B. $(5i + 1)(2i - 1)$