Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

Class/Home worksheet: Alg2H

Quadratic equation (II): Quadratic formula.

(book chapter 8, page 350 and onward)

|  |  |
| --- | --- |
| (Warmup) Solve using complete the square  Steps:  1. Move the 3 to the other side  2. Divide by 4  3. Complete the square  4. Write as  5. Solve (taking + and – of square root) |  |
| where a,b, and c are constants, and , is called **standard form of the quadratic equation.** | |

|  |  |
| --- | --- |
| Write it again | |
| 1. Solve: | 1. Solve: |
| 1. Solve (using the quadratic equation): | 1. Solve (using the quadratic equation): |
| 1. Solve : | 1. Solve: |
| \*Desmos activity | |

Quadratic formula and the MATH method

|  |  |
| --- | --- |
| 1. Solve using quadratic equation: | 1. Factor using MATH method: |
| 1. Solve using quadratic equation: | 1. Factor using MATH method: |
| 1. Solve using quadratic equation: | 1. Factor using MATH method: |
| \*Desmos | |

From the book, page 352

|  |  |
| --- | --- |
| Write it again | |
| (3) Solve: | (4) Solve: |
| (5) Solve: | (6) Solve: |
| (7) Solve : | (8) Solve: |