

Name _____ 5 Snow Day Problems

Day 1 Equation: $x^2 + 11x + 24$

Day 2-3 Equation: $5x^2 + 9x - 2$

Day 4-5 Equation: $12x^2 - x - 6$

1. Standard to factored form
2. Factored to x intercepts
3. Sketch graph (include x intercepts, y intercept, vertex) Show work on finding the vertex using factored form.
4. Complete the square and write in vertex form.
5. Use vertex form to find the x intercepts.
6. Vertex form to standard form.
7. Standard form – Use the quadratic formula to find the x intercepts.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$