Do Nows - Chapter 4

Wednesday 11/20

No School

Thursday 11/21

None

Friday 11/22

None

Monday 11/25

Find the axis of symmetry, vertex, domain, and range.

1. $f(x) = x^2 - 2x - 8$
2. $y = x^2 - 6x + 9$

Tuesday 11/26

Solve by graphing.

1. $0 = x^2 - 2x - 15$
2. $x^2 + 8x + 16 = 0$

Monday 12/2

Solve by factoring.

1. $x^2 + 2x - 15 = 0$
2. $x^2 + 13x + 36 = 0$
3. $x^2 - x - 56 = 0$

Tuesday 12/3

Simplify

1. $\sqrt{28x^2}$
2. $5\sqrt{2x^3y^5} \bullet 2\sqrt{6x^4y^2}$
3. $(2 + \sqrt{7})(2 - \sqrt{7})$

Wednesday 12/4

Simplify

1. $\sqrt{\frac{3}{15}}$

Thursday 12/5

Simplify

1. $\frac{2}{5+\sqrt{3}}$

Friday 12/6

Simplify

1. $\sqrt{-18}$
2. i^{65}

Monday 12/9

Simplify

1. $\frac{3+i}{2i}$
2. $\frac{3}{4+i}$

Solve

$3x^2 + 81 = 0$

Tuesday 12/10

None

Wednesday 12/11

None

Thursday 12/12

Solve the quadratic equation by completing the square

1. $x^2 - 12x + 20 = 0$

Friday 12/13

Solve the quadratic equation by completing the square

1. $2x^2 + 18x = \ - 40$

Monday 12/16

Solve by using the quadratic formula.

1. $2x^2 + 14x = \ - 20$

Tuesday 12/17

Rewrite the function into vertex form. Find the vertex and axis of symmetry, then graph.

1. $f(x) = x^2 - 2x - 8$

Wednesday 12/18

Graph

1. $y > x^2 + 2x + 1$

Thursday 12/19

Solve the inequality

1. $x^2 + 2x + 1 \geq 0$

Friday 12/20

None