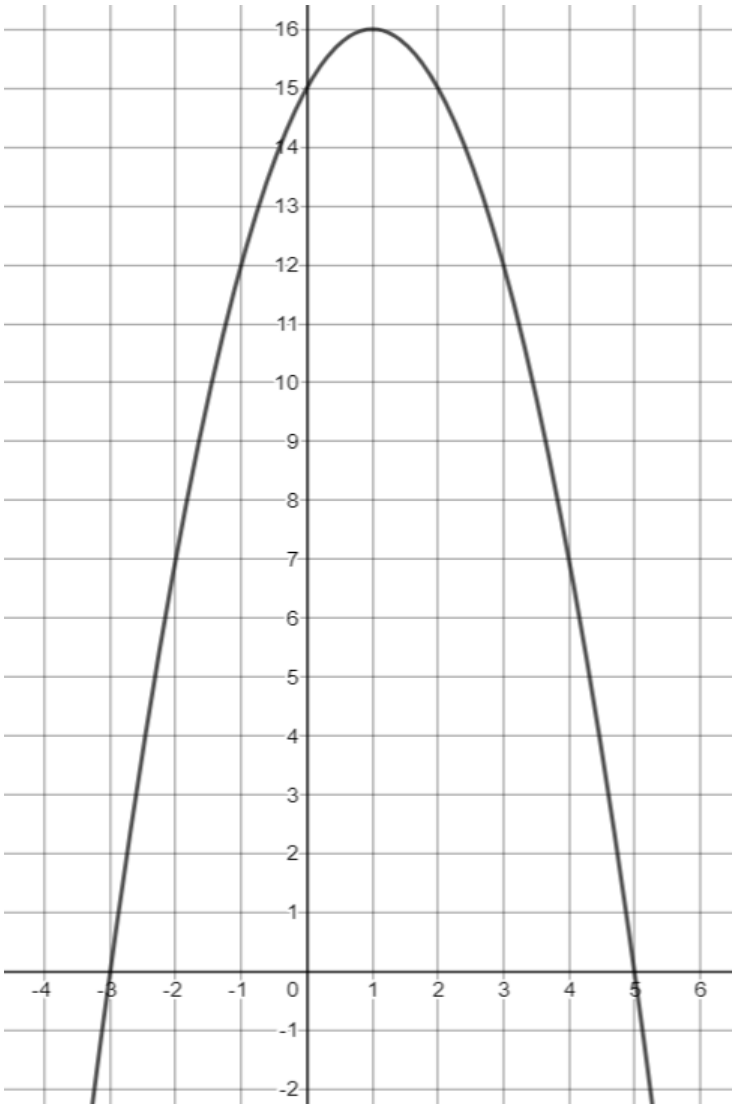
IM2- 3.3 (P – eV1) Key Characteristics & Quadratic Functions from Graphs

F.IF.8

Name: _____ Per: _____ Date: _____

Directions – *For each graph below, determine the key characteristics & write the three quadratic forms.*

1.



Vertex: _____ AoS: _____

Concavity: _____ Min / Max

Dilation: _____

Vertex Form: _____

x-intercepts: _____ & _____

Roots: _____ & _____

Zeros: _____ & _____

Factored Form: _____

y-intercept: _____

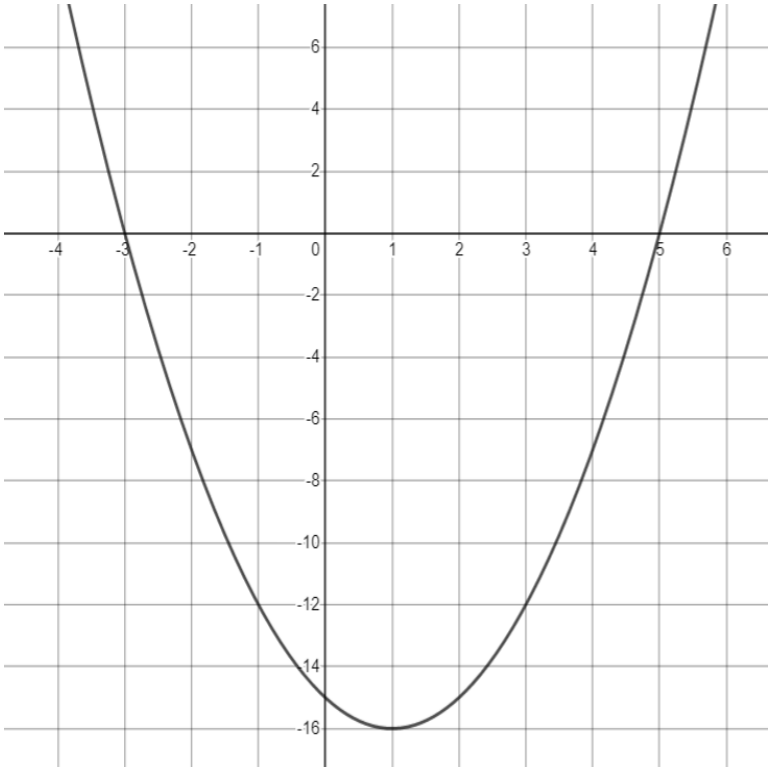
Standard Form: _____

2. On the coordinate plane above (# 1), graph a parabola with a dilation (stretch) of 2, opening upward, and a vertex at (3, -2).

3. Write the vertex form (of # 2) and expand to standard form. Confirm the y-intercept.

4. Identify the x-intercepts, then write the factored form below.

5.



Vertex: _____ AoS: _____

Concavity: _____ Min / Max

Dilation: _____

Vertex Form: _____

x-intercepts: _____ & _____

Roots: _____ & _____

Zeros: _____ & _____

Factored Form: _____

y-intercept: _____

Standard Form: _____

6. On the coordinate plane above (# 5), graph a parabola with a dilation (stretch) of 2, opening downward, and a vertex of (1, 2).

7. Write the vertex form (of # 6) and expand to standard form. Confirm the y-intercept.

8. Identify the x-intercepts, then write the factored form below.