IM2 – 3.3 (P – bV1) Write Factored & Standard Forms from Key Characteristics

F.IF.4, F.IF.5, F.IF.6

Name: _____ Per: _____ Date: _____

Directions - Write the factored form using the following descriptions.

1. Write a quadratic function that represents a parabola that opens downward and has x-intercepts (6, 0) and (4, 0). Then, write it in standard form.

2. Write a quadratic function that represents a parabola that opens downward and has x-intercepts (-9, 0) and (2, 0).

3. Write a quadratic function that represents a parabola that opens upward and has x-intercepts (-7, 0) and (-10, 0).

4. Write a quadratic function that represents a parabola that opens upward and has x-intercepts (14, 0) and (1, 0).

5. Write a quadratic function that represents a parabola that opens downward and has x-intercepts (11, 0) and (-3, 0).



6. Write a quadratic function that represents a parabola that opens upward and has the following roots: 64 *and* 28

7. Write a quadratic function that represents a parabola that opens downward and has zeros at x = 22 and x = -5. Then, write it in standard form.

8. Write a quadratic function that represents a parabola that opens upward and has the following roots: 99 and - 4

9. Write a quadratic function that represents a parabola that opens downward and has zeros at x = 155 and x = 304. Then, write it in standard form.

10. Write a quadratic function that represents a parabola that opens upward and has the following roots: 0.2 and - 500