

IM2 – 3.1 (P – cV2 Template 2) Key Characteristics – From Binomial Factors

F.IF.4



Name: _____ Per: _____ Date: _____

Directions – For each set of binomial factors, distribute and write the expression in standard form. Graph both expressions in Desmos to check for accuracy. Identify all key characteristics below & sketch the graph:

Binomial Factors: _____

Sketch (label all key coordinates & axes)

Standard Form: _____

Vertex: _____

Axis of Symmetry: $x =$ _____

Extrema: Maximum / Minimum

Concave: Up / Down

y-intercept: _____

x-intercept(s): _____ & _____

Domain: _____

Interval of Increase: _____

Interval of Decrease: _____

Binomial Factors: _____

Sketch (label all key coordinates & axes)

Standard Form: _____

Vertex: _____

Axis of Symmetry: $x =$ _____

Extrema: Maximum / Minimum

Concave: Up / Down

y-intercept: _____

x-intercept(s): _____ & _____

Domain: _____

Interval of Increase: _____

Interval of Decrease: _____

Binomial Factors: _____

Sketch (label all key coordinates & axes)

Standard Form: _____

Vertex: _____

Axis of Symmetry: $x =$ _____

Extrema: Maximum / Minimum

Concave: Up / Down

y-intercept: _____

x-intercept(s): _____ & _____

Domain: _____

Interval of Increase: _____

Interval of Decrease: _____

Binomial Factors: _____

Sketch (label all key coordinates & axes)

Standard Form: _____

Vertex: _____

Axis of Symmetry: $x =$ _____

Extrema: Maximum / Minimum

Concave: Up / Down

y-intercept: _____

x-intercept(s): _____ & _____

Domain: _____

Interval of Increase: _____

Interval of Decrease: _____