***MFM2P – Finding Intercepts and Sketching Parabolas***

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| AREA FORM 🡪 | Y-INTERCEPT | 🡪BUILD RECTANGLE | 🡪LENGTH/  WIDTH FORM | 🡪X-INTERCEPTS (AND VERTEX?) | 🡪 SKETCH |
|  | 2 | YES, DO IT!!! |  | -2, -1 |  |

Using the process above, sketch the following parabolas.

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| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_     vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_   vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_     vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_     vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_    vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_    vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Area form:   y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_  length/width form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_    vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |

***WHAT IF WE WERE GIVEN LENGTH-WIDTH FORM INSTEAD OF AREA FORM?***

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| LENGTH/ 🡪 WIDTH FORM | X-INTERCEPTS (AND VERTEX?) | 🡪BUILD 🡪  RECTANGLE (USING SIDE LENGTHS, THEN FILL IN AREA) | 🡪AREA FORM | 🡪 Y-INTERCEPT | 🡪 SKETCH |
|  | -2, -1 |  |  | 2 |  |

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| 1. Length/width form:   x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_  area form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  y-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_     vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Length/width form:   x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_  area form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  y-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_     vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |
| 1. Length/width form:   x-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_  area form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  y-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_\_\_     vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Sketch |