1) ***Match each graph with its equation*** ➅

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* Think about what form the equation is in.
* If you have an equation in factored form, look for a graph with the same x-intercepts!
* If you have an equation in standard form, look for a graph with the same y-intercept.

|  |  |  |  |
| --- | --- | --- | --- |
| Equation | Matching Letter | Equation | Matching Letter |
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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| a. |  | b. |  | c. |  |
| d. |  | e. |  | f. |  |

2) Expand the following expressions by using the distributive law (FOIL). ➁ each

a) b) c)

d) e) f)

3) Expand the following 2 quadratic relations to convert them into standard form. A graph has been provided so that you can check your answer. ➃ each.

a) Vertex Form: b) Factored Form: Sketch:

4) Expand the following 2 quadratic relations to convert them into standard form. A graph has been provided so that you can check your answer. ➃ each.

a) Vertex Form: b) Factored Form: Sketch:

5) Expand the following 2 quadratic relations to convert them into standard form. A graph has been provided so that you can check your answer. ➃ each.

a) Vertex Form: b) Factored Form: Sketch:

6) Evaluate the following by **rewriting with positive exponents first**. Leave your answers as a fraction when necessary. ➁ each.

a) b) c) d)

7) Expand and Simplify the following expressions: ➂ each.

a) b)