### Lesson 15 Practice Problems

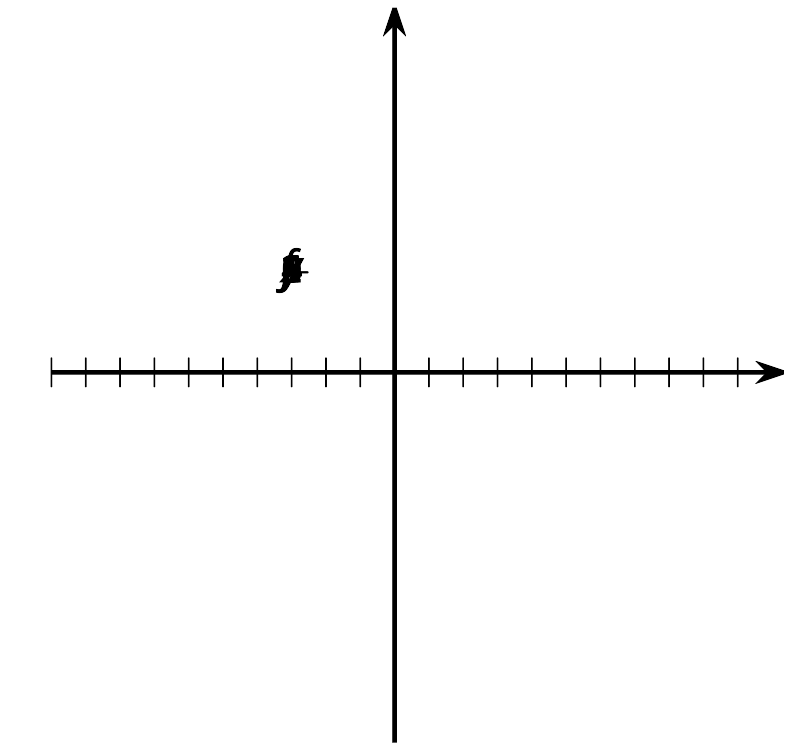
1. For the polynomial function , we have . Rewrite as a product of linear factors.
2. Select **all** the polynomials that have as a factor.
3. Write a polynomial function, , with degree 3 that has .
4. Long division was used here to divide the polynomial function by and to divide it by .
   1. What is ?
   2. What is ?
5. Which polynomial function has zeros when ?

* (From Unit 2, Lesson 5.)

1. The polynomial function has known factors and . Rewrite as the product of linear factors.

* (From Unit 2, Lesson 12.)

1. We know these things about a polynomial function : it has degree 3, the leading coefficient is negative, and it has zeros at . Sketch a graph of given this information.

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* (From Unit 2, Lesson 14.)



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