Info Gap: Different Forms of Quadratic Expressions

Problem Card 1

- 1. Write an expression in vertex form that could define a quadratic function, *f*.
- 2. Write an expression in factored form that could define a quadratic function, g.
- 3. Show that *f* and *g* do not define the same function.

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Data Card 1

- The vertex of the graph of function f is (6,-9).
- The *x*-intercepts of the graph of function g are (-7,0) and (-5,0).

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Problem Card 2

Functions *a* and *b* are quadratic functions.

- 1. What are the zeros of function *a*?
- 2. What is the vertex of the graph representing function *b*?
- 3. Show that *a* and *b* do not define the same function.

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Data Card 2

- Function a is defined by $(x-5)^2-4$.
- Function *b* is defined by (x+1)(x-5).