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 $(x+1)(x-5)$.