

Algebra 12-8 Which Quadratic Expressions are Factorable?

In 1-4 a polynomial is given

a.) calculate the discriminant

b.) state if the polynomial can be factored over the set of integers.

1. $g^2 + 3g + 2$

a.) _____

b.) _____

2. $5g^2 - 3g - 4$

a.) _____

b.) _____

3. $6n^2 + 17g + 12$

a.) _____

b.) _____

4. $3y^2 - 6y - 10$

a.) _____

b.) _____

5. In the equation $ax^2 + 12x + 15$, what value for a will make the equation factorable? _____

6. Find two values for the variable h such that $6x^2 + hx - 2$ is factorable. _____