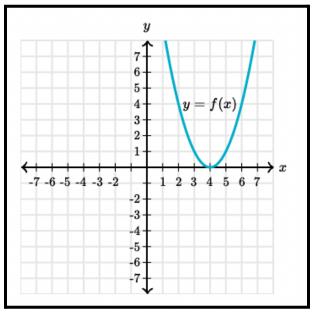
# **Topic: Number of solutions of quadratic equations**

### **Problem:**

Is the discriminant of *f* positive, zero, or negative?



(insert above image)

Choose 1 answer:

- A. Positive
- B. Zero
- C. Negative

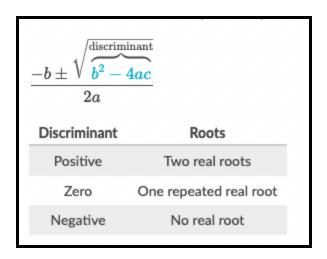
### **Answer:**

Zero

## Hints (2 Total):

### Hint 1 / 2

The discriminant is a part of the quadratic formula. The sign of the discriminant tells us whether there are two roots, one root, or no roots. (insert below image)



### Hint 2 / 2

In this case, the parabola touches the x-axis only once, so f has a real number root. Therefore, the discriminant of f is equal to 0.