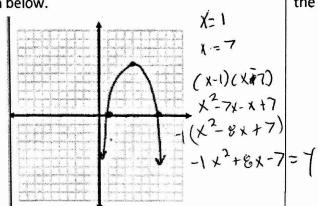
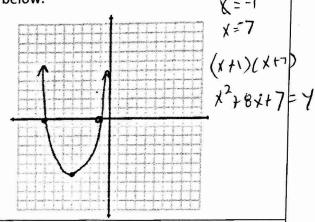
## **Round Table**

Write an equation using the roots that could model the graph below.



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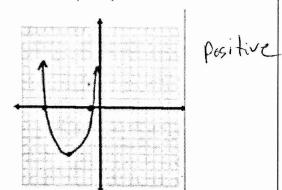
Find the discriminant for the equation below. Then, state how many and what type of solutions the equation will have.

$$y = 5x^2 + 20x + 3$$

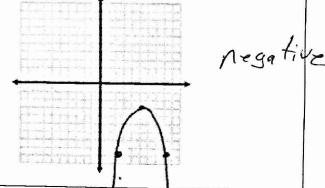
Find the discriminant for the equation below. Then, state how many and what type of solutions the equation will have.

$$y = -2x^{2} + 6x - 8$$
  
 $(6)^{2} - 9(-2)(-8)$   
 $= -28$   
 $= -28$   
 $= -28$ 

Will the graph pictured have a positive, negative, or zero discriminant? Explain your answer.



Will the graph pictured have a positive, negative, or zero discriminant? Explain your answer.



An equation has one real solution. Will the discriminant of the equation be positive, negative, or zero? Explain your answer.

An equation has solutions at 3 and 7. Will the discriminant of the equation be positive, negative, or zero? Explain your answer.

