|  |  |
| --- | --- |
| Write an equation using the roots that could model the graph below.  | Write an equation using the roots that could model the graph below. |
| 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.$$y=-2x^{2}+6x-8$$ |
| 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. |