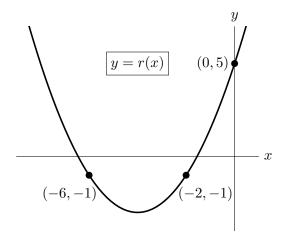
- 5. [8 points] For each part of this problem, you must show every step of any algebraic work that is required.
 - **a**. [3 points] The quadratic function q(x) has its vertex at the point (2, 4) and a zero at x = 5. Find a formula for q(x).

Answer: $q(x) = _$

b. [5 points] Find a formula for the quadratic function r(x) graphed below.



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