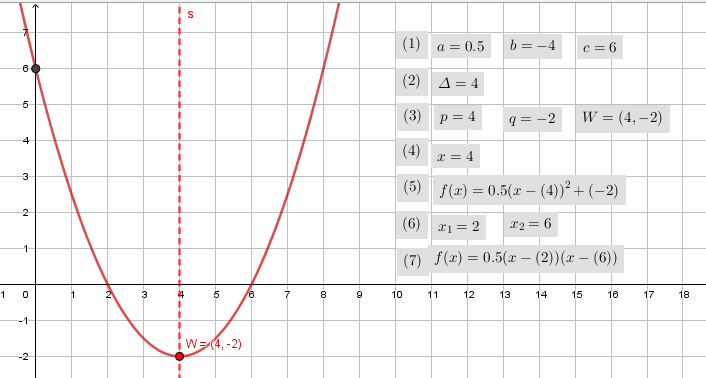
## Test yourself | Properties of quadratic functions | Answers

**Task:** Work out the following features of the function given by the formula

1. Coefficients of the standard form .
2. Determinant .
3. Coordinates of the vertex of the parabola, which the graph of the function.
4. Equation of the line of symmetry of the parabola, which is graph of the function
5. Vertex form of the function.
6. Zeros of the function (if they exist).
7. Factored form (if exists).
8. Graph of the function and line of symmetry.  
     
   
9. The domain of the function is the set of all real numbers.
10. The range of the function is
11. for .
12. for **.**
13. Maximum interval in which the function increases is .
14. Maximum interval in which the function decreases is .
15. The maximum of for from the closed interval is .
16. The minimum of for from the closed interval is .