

Algebra 2 Easy Peasy All-in-One High School

Questions from Algebra 2 Online! <http://teachers.henrico.k12.va.us/math/hcpsalgebra2/modules.html>

1. Write an equation for the parabola whose vertex is at  $(2, 6)$  and which passes through  $(4, -4)$ .

answer:  $y = -2.5(x - 2)^2 + 6$

2. Solve.  $4x^2 + 12x + 8 = 0$

answer:  $\{-2, -1\}$

3. Write a quadratic equation with the given roots.  $-9$  and  $-4$

answer:  $x^2 + 13x + 36 = 0$

4. Use the quadratic formula to find the solution.  $x^2 - 7x = 60$

answer:  $\{-5, 12\}$

5. Find the discriminant.  $-4x^2 - 14x + 3 = 0$

answer: The discriminant is 244.