

- Section 5.1
 - Describe vertical shifting in functions. (Example 1)
 - Describe horizontal shifting in functions. (Example 4)
 - Describe vertical scaling in functions. (Example 7)
 - Describe vertical and horizontal reflection in functions. (Example 8)
- Section 5.3
 - Maximize or minimize a quadratic model. (You may use the fact that the x -coordinate of the vertex of $ax^2 + bx + c$ is $\frac{-b}{2a}$.) (Example 2)
 - Construct a quadratic model. (Example 4 and 5)
- Section 5.4
 - Extract information from a quadratic model using the quadratic formula. (I will provide you with the quadratic formula during the test.) (Example 8)
- Section 6.2
 - Construct power functions with whole number exponents based on direct proportionality. (Example 3)
 - Construct power functions with fractional exponents based on inversion. (Example 5)
- Section 6.3
 - Construct a polynomial model and extract information from it. (Example 6 and 7)
 - Deduce the algebraic representation of a polynomial based on its graph. (Exercises 33-38)
- Section 6.5
 - Construct power functions with negative exponents based on inverse proportionality. (Example 3)