**CALCULUS: CURVE SKETCHING**

**Fill in the answers.**



1. The y - intercept is ( \_\_; \_\_ )
2. The x – intercepts are ( \_\_; \_\_ ) , ( \_\_; \_\_ ) and ( \_\_; \_\_ )
3. The coordinates of A are ( \_\_; \_\_ )
4. The coordinates of B are ( \_\_; \_\_ )
5. The general cubic function is y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. The actual cubic function is f(x) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. The x- values for which f(x) is increasing are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Given that f(x) = **k**, the values of **k** for which the graph has three roots are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. The point of inflection is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. The two turning points are \_\_\_ and \_\_\_\_