**الجمهورية الجزائرية الديمقراطية الشعبية   
مديرية التربية لولاية البيض ثانوية حميتو الحاج علي الشلالة**

**المستــــــوى: 1.ج.اداب التــــاريخ: 12/02/2024**

**فرض الفصل الثاني في مادة الرياضيات**

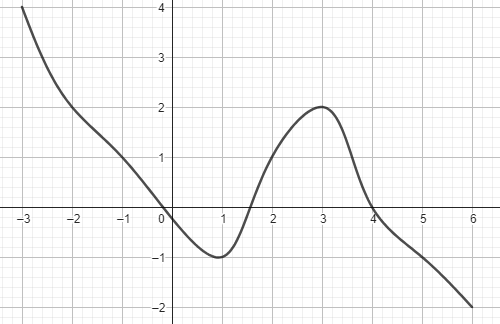
**التمرين الأول:**

 عدد حقيقي ولتكن العبارةحيث: 

1. بين أنه من أجل كل عدد حقيقي  : 
2. أنشر وبسط العبارة 
3. حل في المجموعة المعادلة 
4. استنتج حلول المتراجحة 

**التمرين الثاني:**

إليك  التمثيل البياني لدالة  معرفة على مجال 



1. عين مجموعة تعريف الدالة 
2. ما هي صور الأعداد ،  ،  و  .
3. ما هي السوابق الممكنة – إن وجدت- للأعداد:  ،  و 
4. عين القيمة الحدية الصغرى والعظمي للدالة  على مجال تعريفها
5. حدد اتجاه تغير الدالة 
6. شكل جدول تغيرات الدالة 

**مع تمنيات أستاذة المادة لكم بالتوفيق**

الاسم و اللقب:...................................................................................................................

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