



Interactive Electronic Textbooks in Developing South Africa

Eduvate 2008
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If at first you don't succeed, swallow
all evidence that you tried (J. Seabrook 2004)



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Personal Background



- 1st year economics lecturer
- Interaction:
 - Content
 - Faculty
 - Peers (Moore, 1989)
- Tried – asynchronous discussions
 - Marking?
 - Copying?
 - Readiness?



Problem within a problem



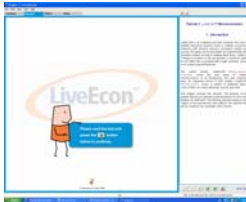
- Loads of 1st years
- ECONOMICS!!! (Fullbrook, 2004; Becker, 2004)
- Digital foreigners + Digital natives + Digital immigrants (Thomas, 2006; Prensky 2004)
- Engagement with content (Brusow, 2007) = BUT unwilling, or unable?
- Mathematical (non?)ability



Solution – or was it???



- LiveEcon
- Fully online textbook
- Interactive
- Moodle-platform
- E-pack
 - Text; [Tutorials](#) Bells and whistles
 - [U-Drive-It](#)
 - [ENGAGE!](#)



Live-econ - ENGAGE



- Opportunity to contextualise subject content
 - Case study
 - Current economic issues
 - Economics expert
 - Writing Style



Anticipated obstacles



- 1st years (Oliver 2007, McInnes, James and Hartley 2000)
- Electricity (StatsSA, 2007)
- Access to computers/internet
- Eskom
- Bandwidth
- On campus access

Can one therefore realistically use a text that solely relies on reliable internet, electricity and technology in South Africa?



So what WERE the problems?



- REGISTRATION
- Inability of publisher to understand SA environment
- Communication with publisher
- TIME
- Computer services



What went right?



- Cost
- 372 successes – well received
- Markers trained
- Case study
- Set the scene for great opportunities



If at first you
DO succeed,
try not to look
too
astonished.

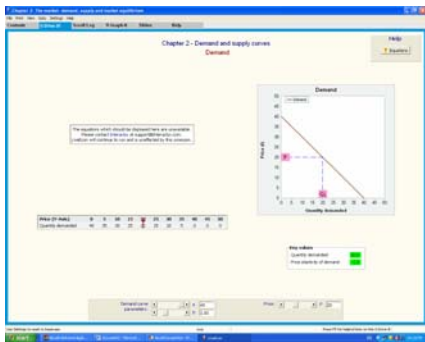


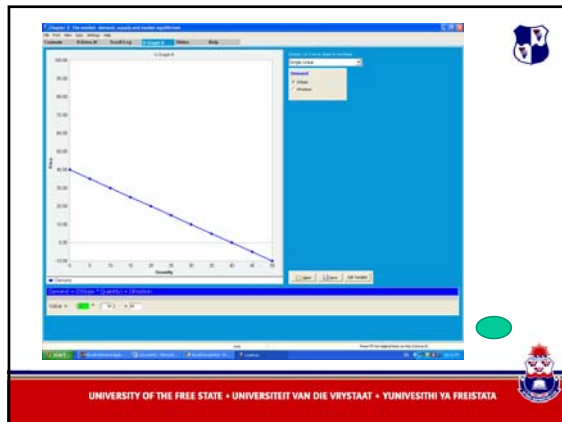
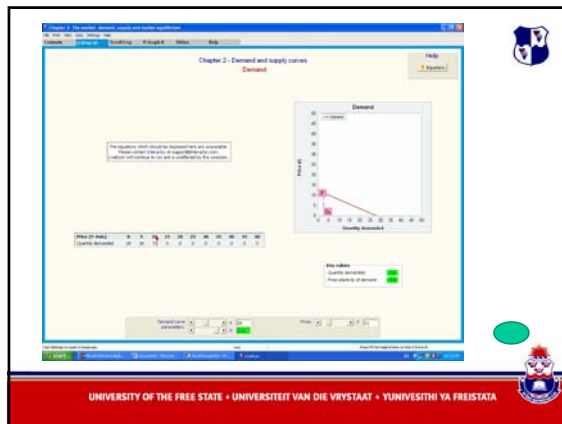


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Questions 1

A certain percentage of students in a class are absent on a given day. If 20% of the students are absent, how many students are present in a class of 50 students?

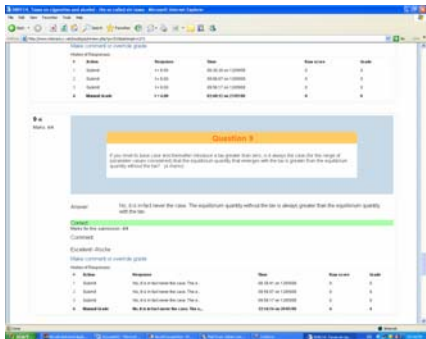
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First name (Surname)	Marked on	Completed	Time taken	Grade (%)
12	12 May 2009 07:52 AM	12 May 2009 08:50 AM	2 hours 3 mins	50.0
13	12 May 2009 08:07 AM	12 May 2009 08:28 AM	2 hours 30 mins	50.0
14	12 May 2009 08:22 AM	12 May 2009 08:58 AM	35 mins 37 secs	50.0
15	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
16	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
17	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
18	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
19	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
20	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
21	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
22	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
23	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
24	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
25	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
26	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
27	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
28	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
29	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0
30	12 May 2009 08:42 AM	12 May 2009 09:29 AM	47 mins 47 secs	50.0

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The screenshot shows a Microsoft Word document with a table of contents and a question. The table of contents lists sections: 'Index of References', '1. Introduction', '2. Background', '3. Method', and 'Method used'. Below the table of contents, there is a section titled 'Question 9' with a blue background. The question asks: 'If you have to solve an inequality without the use of a calculator, is it always the case that the sign of the inequality will remain the same? Justify your answer with an example.' Below the question, there is an 'Answer' section that states: 'No, it is not always the case. The sign of the inequality will remain the same if you multiply or divide both sides of the inequality by a positive number. If you multiply or divide both sides of the inequality by a negative number, the sign of the inequality will change.' Below the answer, there is a section titled 'References' with a table of references.

Index of References	Reference	Date	Page no.	Mark
1. Introduction	1.1.1.1	10/10/2019	1	1
2. Background	2.1.1.1	10/10/2019	1	1
3. Method	3.1.1.1	10/10/2019	1	1
Method used	3.1.1.1	10/10/2019	1	1

Question 9

If you have to solve an inequality without the use of a calculator, is it always the case that the sign of the inequality will remain the same? Justify your answer with an example.

Answer: No, it is not always the case. The sign of the inequality will remain the same if you multiply or divide both sides of the inequality by a positive number. If you multiply or divide both sides of the inequality by a negative number, the sign of the inequality will change.

References:

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