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MATHEMATICS GRADE 12

2021 REVISION MATERIAL

TRIGONOMETRY

**A collection of questions from previous
question papers (2016 to 2020).
Prepared by T Faya.**

Take note: Coding of questions.

KZN J18 – KZN June 2018

KZN S18 – KZN Sept 2018

ECSE18 – Eastern Cape Sept 2018

NM17 – National March 2017

And so on

This booklet is divided into 3 SECTIONS.

1. SECTION A – Definitions involving Pythagoras.

- Identities.
- Reduction formulae.
- Special Angles.
- Trig Equations and General Solutions.

2. SECTION B – Trigonometric Functions

3. SECTION C – Solutions to triangles (2D & 3D Applications).

* *Compound angles and double angles are integrated into all subsections.

Maths Paper Preparatory Exam September 2014 Memo

Michael Rajnik



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The Enigmatic Realm of **Maths Paper Preparatory Exam September 2014 Memo**: Unleashing the Language is Inner Magic

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the btc thread has higher joint and bending strengths than ltc or stc as a result this thread is often used in deeper wells where higher hook loads are experienced thread compound must also be used to obtain a seal with btc btc is also run in horizontal wells where doglegs can cause high bending loads on larger casings

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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears

gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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