## GR 10 MATHS – EXAM MEMOS

#### **NATIONAL EXEMPLAR PAPER 1**

1.1.2 
$$\frac{x^3+1}{x^2-x+1}$$
  $\frac{4x^2-3x-1}{4x+1}$ 

$$= \frac{(x+1)(x^2-x+1)}{(x^2-x+1)} \cdot \frac{(4x+1)(x-1)}{(4x+1)}$$

$$= x + 1 - x + 1$$

# 2 K



$$\pm x = \frac{245}{999}$$

... i.e. 
$$x$$
 can be expressed as  $\frac{d}{b}$  where  $a \notin b \in \mathbb{Z}$ 

... It is a rational number

$$2.1.1$$
  $x^2 - 4x = 21$ 

$$x^2 - 4x - 21 = 0$$

$$(x+3)(x-7) = 0$$

$$-x+3=0$$
 or  $x-7=0$ 

$$x - 7 = 0$$

$$= \left(\frac{5}{3}\right)^{\frac{4}{5}} = \left(2^{5}\right)^{\frac{4}{5}}$$

$$= \pi = 2^4$$



2.1.3 
$$\frac{2\sqrt{x}}{38} = R$$

$$\times$$
 35)  $\therefore 2\sqrt{x} = 35R$ 

$$-2$$
)  $\therefore \sqrt{\pi} = \frac{3SR}{2}$ 

Square: 
$$x = \frac{9 S^2 R^2}{4}$$



3.1.1 The 1<sup>st</sup> 3 terms:

3.1.2 The difference is -4

$$\therefore$$
 In  $T_n = an + b$ :  $a = -4$ 

# Maths Paper 2 2013 Grd10 And Memo

Xiaolong Qi

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