



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

**NATIONAL SENIOR
CERTIFICATE/*NASIONALE
SENIOR SERTIFIKAAT***

GRADE/*GRAAD* 12

**MATHEMATICS P1/*WISKUNDE V1*
MARKING GUIDELINES/*NASIENRIGLYNE*
SEPTEMBER 2024**

MARKS/*PUNTE*: 150

This marking guidelines consists of 17 pages/*Hierdie nasienriglyne bestaan uit 17 bladsye*

NSC – Marking Guidelines/Nasienriglyne

1.3	$x = \frac{72}{t}$ $t = \frac{72}{x} \quad (1)$ $t - 0,2 = \frac{72}{x+5}$ $t = \frac{72}{x+5} + 0,2 \quad (2)$ equate (1) and (2) $\frac{72}{x} = \frac{72}{x+5} + 0,2$ $72(x+5) = 72x + 0,2x(x+5)$ $72x + 360 = 72x + 0,2x^2 + x$ $0,2x^2 + x - 360 = 0$ $x^2 + 5x - 1800 = 0$ $(x-40)(x+45) = 0$ $x = 40 \quad \text{or / of} \quad x = -45$ $x = 40 \text{ km / h}$	$\checkmark t = \frac{72}{x}$ $\checkmark t = \frac{72}{x+5} + 0,2$ $\checkmark \text{substitution / substitusie}$ $\checkmark \text{standard form}$ $\quad / \text{standard vorm}$ $\checkmark x = 40$	(5)
			[25]

