MEMORANDUM

HOERSKOOL [redacted]
WISKUNDE [TWEEDE VRAESTEL] — JUNIE [redacted]
GRAAD 8 — PUNTE: 50
EKSAMINATOR: [redacted] — TYD: 1 UUR
MODERATOR: [redacted]

VRAAG 1

1.1.1) 110° (1) ✓ 110
1.1.2) gelykbenige Δ (1) ✓ gelykbenig
1.1.3) 45°; 45°; 90° (3) ✓45 ✓45 ✓90
1.1.4) komplement (1) ✓ komplement
1.1.5) omwenteling (1) ✓ omwenteling

1.2.1) $2x - 10 = x + 30°$ ✓ gelyk stel
$2x - x = 30 + 10$ ✓ vereenvoudig
$x = 40°$ (3) ✓ $x = 40$

1.2.2) $2x - 10 + x + 70 = 180°$ ✓ som $= 180°$
$2x + x = 180 + 10 - 70$
$3x = 120$ ✓ vereenvoudig
$x = 40°$ (3) ✓ $x = 30°$
[13]

VRAAG 2

2.1) $a = 65°$ [L^e op reguit lyn] (2) ✓65 ✓R
2.2) $b = 109°$ [regoorst L^e] (2) ✓109 ✓R
2.3) $c = 135°$ [ko-binne L^e; $WV \parallel XY$] ✓135 ✓R ✓// lyne
$d = 69°$ [ko-binne L^e; $WV \parallel XY$] (6) ✓69 ✓R ✓// lyne
2.4) $e = 68°$ [ooreenkoms L^e; $KL \parallel MN$] (3) ✓68 ✓R ✓// lyne
2.5) $f = 35°$ [vers L^e; $PQ \parallel RS$] (3) ✓35 ✓R ✓// lyne
[16]

VRAAG 3

[-1 vir nie // lyne nie]

3.1.1) $b = 105°$ [ko-binne L^e; $FG \parallel MN$] ✓105° ✓R met // lyne
3.1.2) $c = 54°$ [regoorst L^e] ✓54° ✓R
3.1.3) $c = 82°$ [ooreenkomst L^e; $FG \parallel MN$] ✓82 ✓R met // lyne
3.1.4) $a = 63°$ [vers L^e; $FG \parallel MN$] ✓63 ✓R met // lyne
3.1.5) $d = 47°$ [L^e op reguit lyn] ✓47 ✓R
(10)

3.2.1) $x = 120°$ [ooreenkoms L^e; $AC \parallel BD$] ✓120° ✓R met // lyne
3.2.2) $y + 35 + 120 = 180°$ [L^e op reguit lyn] ✓vergl $= 180°$ ✓R
$y = 25°$ (5) ✓25

3.3.1) $x = 65°$ [vers L^e; $AC \parallel DG$] ✓65 ✓R met // lyne
3.3.2) $y = 65°$ [L^e teenoor gelyke sye] ✓65 ✓R
3.3.3) $z = 130°$ [Buite L v Δ] ✓130 ✓Rede
of [L^e v Δ en L^e op reguit lyn] (6)
[21]

TOTAAL: 50