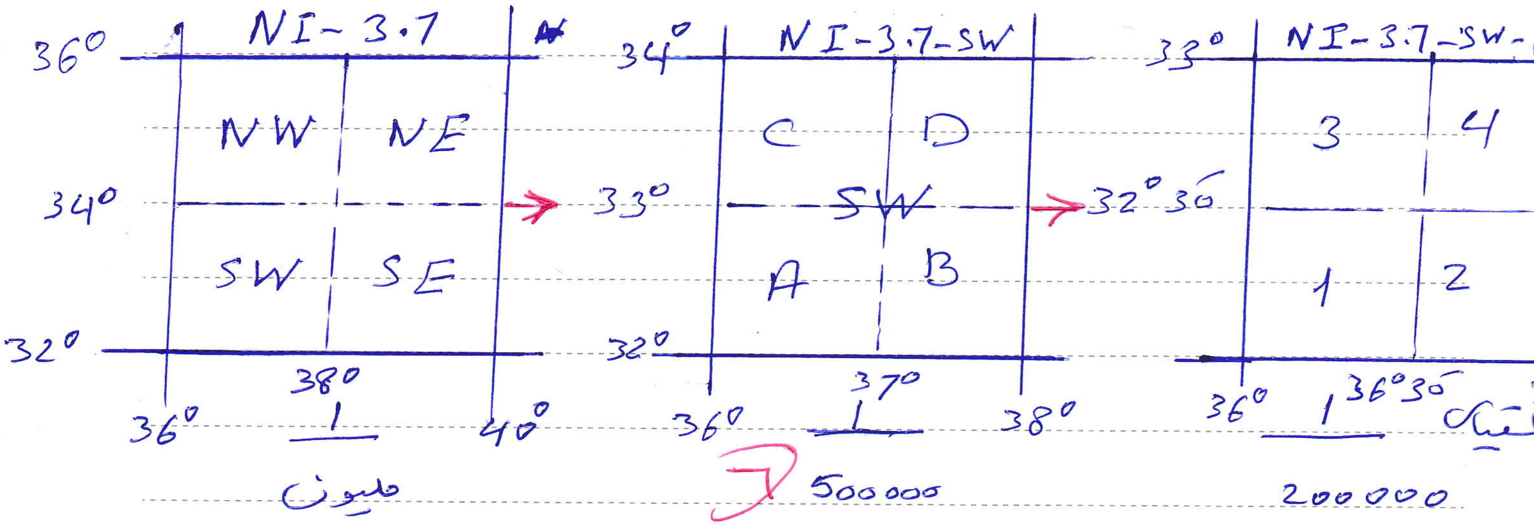
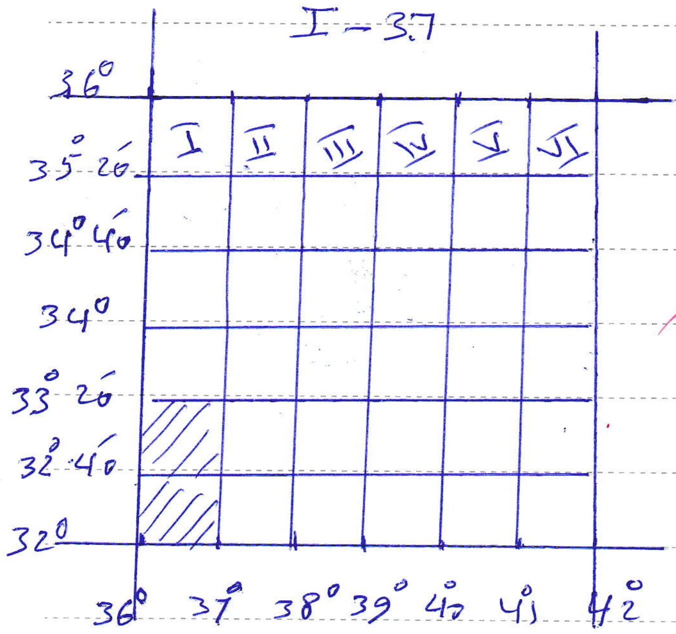
سلم تصحيح اسئلة الفصل الثاني

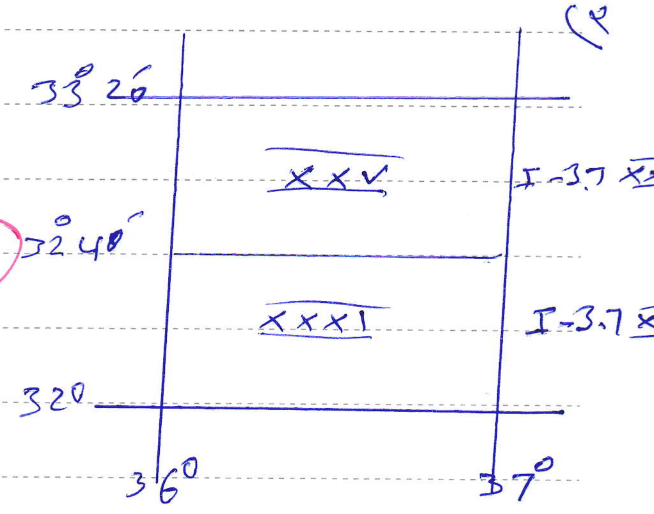
السؤال الأول (١٥ درجة).



٢) عدد الخرائط 16 خارطة .



٣)



سلم تصحيح الـ ق١/٢/ الفصل الثاني ٢٨/٧/٢٠٢٥

السؤال الثاني (٢٠ علامة).

كميات الحفر m^3	العلامة	كميات الردم m^3
$V_1^2 = 628.10\ m^3$	٤	$V'_1{}^2 = 28.86\ m^3$
$V_2^3 = 270.30\ m^3$	٤	$V'_2{}^3 = 191.50\ m^3$
$V_3^4 = 368.30\ m^3$	٤	$V'_3{}^4 = 140.60\ m^3$
$V_4^5 = 854.85\ m^3$	٤	$V'_4{}^5 = 0.0\ m^3$
$V_5^6 = 355.23\ m^3$	٤	$V'_5{}^6 = 107.636\ m^3$
$\sum V = 2476.78\ m^3$		$\sum V' = 468.596\ m^3$

السؤال الثالث (٢٠ علامة) صفحة ١٢١ ٢٨/٥/٢٠٢٥

$\bar{\beta} = G_D^M - G_D^E = 228.9200 - 119.9839 = 108.9361\ g$

$\beta = 200 - \bar{\beta} = 91.0639\ gr$

$\bar{\gamma} = G_E^D - G_E^N = 319.9839 - 159.2966 = 160.6873\ g$

$\gamma = 200 - \bar{\gamma} = 39.3127\ gr$

$\alpha = 200 - (\beta + \gamma) = 69.6234\ g$

$[\varphi = 200 - \alpha = 130.3766\ g]$

$\varphi/2 = 65.1883\ g$

$DE = \sqrt{\Delta X^2 + \Delta Y^2} = 70.96\ m$

$SE = \frac{DE \times \sin\beta}{\sin\alpha} = 79.10\ m$

$T = 2 \times SE = 158.19 = R \cdot tg\ \varphi/2 \Rightarrow R = \frac{158.19}{tg\ \varphi/2}$

$R = 96.30\ m$

$X_B = X_E + \frac{T}{2} \sin G_E^B = -264.27\ m$

$Y_B = Y_E + \frac{T}{2} \cdot \cos G_E^B = 130.186$

$G_E^B = G_E^N = 159.2966$

$G_B^O = G_E^B - 100 + 200 = 259.2966$

$X_O = X_B + R \cdot \sin G_B^O = -341.55\ m$

$Y_O = Y_B + R \cdot \cos G_B^O = 73.40\ m$

$G_O^A = G_B^O - \varphi + 200 = 328.92\ gr$

$X_A = X_O + R \sin G_O^A = -428.08\ m$

$Y_A = Y_O + R \cdot \cos G_O^A = 115.6674$

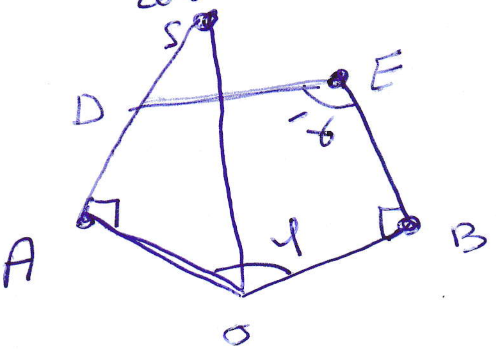
$S = 2R \cdot \sin \varphi/2 = 164.52\ m$

$b = R\left(\frac{1}{\cos\varphi/2} - 1\right) = 88.90\ m$

$f = R(1 - \cos \varphi/2) = 46.23\ m$

$t = R \cdot tg\ \varphi/4 = 54.12\ m$

$L = \frac{R \cdot \pi \cdot \varphi}{200} = 197.22\ m$



$G_A^S = G_O^A - 100 + 200 = 28.92\ g$

$X_S = X_A + T \cdot \sin G_A^S = -358.66\ m$

$Y_S = Y_A + T \cdot \cos G_A^S = 257.181\ m$

د.م وائل مشرف رضوان
د.م أنور الصيفي

انتهت الأسئلة