

$$t_{BE} = 2.63474.0^{-4} = t_{INE} \text{ of arrival to B offer C}$$

$$t_{AE} = 7.07023.00^{-4} = t_{INE} \text{ of arrival } -t_0 \text{ A offer C}$$

$$t_{AB} = t_{AE} - t_{BE} = \int_{A}^{\infty} A \text{ from C}$$

$$C = (x_c, y_c)$$

$$A = (x_A, y_A)$$

$$B = (x_B, y_B)$$

$$\int (x-x_{0})^{2}+(y-y_{0})^{2}-\int (x-y_{0})^{2}+(y-y_{0})^{2}=st_{bc}$$

$$\int (x-x_{0})^{2}+(y-y_{0})^{2}-\int (x-x_{c})^{2}+(y-y_{c})^{2}=st_{BC}$$

$$\int (x-x_{0})^{2}+(y-y_{0})^{2}-\int (x-x_{c})^{2}+(y-y_{c})^{2}=st_{AC}$$

$$\begin{aligned}
& t = \text{stee} \\
& \left( \sqrt{(x - x_6)^2} + (y - y_6)^2 \right) = t + \sqrt{(x - x_6)^2} + (y - y_6)^2 \\
& (x - x_6)^2 + (y - y_6)^2 = t^2 + 2 + \sqrt{(x - x_6)^2} + (y - y_6)^2 + (y - y_6)^2 \\
& (x^2 - 2x x_6 + x_6^2 + y^2 - 2y y_6 + y_6^2 = t^2 + 2t + (x - x_6)^2 + (y - y_6)^2 + y^2 - 2x x_6 + x_6^2 + y^2 - 2y y_6 + y_6^2 \\
& 2x x_6 - 2x x_6 + x_6^2 - x_6^2 + 2y y_6 - 2y y_6 + y_6^2 - y_6^2 - t^2 = 2 + \sqrt{(x - x_6)^2} + y_6^2 - 2y y_6 + y_6^2 \\
& 2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2) = \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2\right) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2\right) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - t^2\right) + \left(2 + \sqrt{(x - x_6)^2} + (y - y_6)^2\right)^2 \\
& = \left(2x (x_6 - x_6) + 2y (y_6 - y_6) + (x_6^2 - x_6^2 + y_6^2 - y_6^2 - y_6^2 - t^2\right) + \left(2x (x_6 - x_6) + (y - y_6) + (x_6 - x_6) + (x_6$$

(4v2)y2-(4t2)y2+(8xuv)y+(4vw)y+(8t2yc)y+(4u2x2-4t2x2+4uwx+8t2xex+w2-4t2x2-4t2y2)=0  $\frac{(4\sqrt{2}-4t^2)y^2+(8xuv+4vw+8t^2ye)y+[(4u^2-4t^2)x^2+(4uw+8t^2xe)x+(u^2-4t^2xe^2-4t^2ye^2)]=0}{6}$ 

 $y = -b \pm \int_{0}^{2} 4ac$ 

$$(a-b)^2 = a^2 - 2ab + b^2$$
  
 $(b-a)^2 - b^2 - 2ab + a^2$ 

-20, b, + 20, 5, -40, = -20, b, + 20, 16, 2-40, c2

= (2a,b) - 2(20,b)(2a,b) + (2a,b)

$$\left(2a_{2}\int_{b_{1}^{2}}^{4}4a_{1}c_{1}\right)^{2}-2\left(2a_{2}\int_{b_{1}^{2}}^{2}4a_{1}c_{1}\right)\left(2a_{1}\int_{b_{2}^{2}}^{2}+4a_{2}C_{2}\right) -4a_{2}^{2}b_{1}^{2}-8a_{1}a_{2}b_{1}b_{2}+4a_{1}^{2}b_{2}^{2}$$

4a2(b2-4a,c) - 8a1a2 (b2-4a,c) (b2-4a2c2) + 4a2 (b2-4a2c2) =

$$\frac{4a_{2}b_{1}^{2}-1ba_{2}^{2}a_{1}c_{1}+4a_{1}^{2}b_{2}^{2}-1ba_{1}^{2}a_{2}c_{2}-4a_{2}b_{1}^{2}+8a_{1}a_{2}b_{1}b_{2}-4a_{1}^{2}b_{2}^{2}-8a_{1}a_{2}\int_{a_{1}}^{a_{2}}\frac{1}{a$$

LHS: (8a,azb,bz)2+ (16a,2a,c,2+ (16a,2azcz)2-2(8a,azb,bz)(16a,2a,c,1)-2(8a,azb,bz)(16a,2azcz)+2(16a,2a,c,1)(16a,2azcz)

64a, 2a2b, 3b2 +256a2a2c2 + 256a, 4a2c2 - 256a, 2a3b, b2c, -256a2a3b, b2cz + 512a3a3c, cz

RHS: 64 a2 a2 (6262 - 462 azcz - 462 a, c, + 16 a, azc, c2)

64a, a, b, b, b, -2 -256 a, a, b, c, -256 a, a, b, c, +1024 a, a, c, c,

RHS-LHS = 0

-256a, a, 3b, c, -256a, a, b, c, -256a, a, c, -256a, a, c, -256a, a, c, +256a, a, b, b, c, +256a, a, b, c, +512a, a, c, c,

$$-a_{2}b_{1}^{2}c_{2}-a_{1}b_{2}^{2}c_{1}-a_{2}^{2}c_{1}^{2}-a_{1}^{2}c_{2}^{2}+a_{2}b_{1}b_{2}c_{1}+a_{1}b_{1}b_{2}c_{2}+2a_{1}a_{2}c_{1}c_{2}=0.$$

$$0 = 4v^{2} - 4t^{2}$$

$$b = 8uv x + 4vw$$

$$c = (4u^{2} - 4t^{2})x^{2} + (4uw)x + w^{2}$$

$$g$$

$$\begin{split} 1) \quad -\alpha_{z} \left( e_{i} \chi + f_{i} \right)^{2} \left( g_{i} \chi^{2} + h_{i} \chi + k_{i} \right) &= -\alpha_{z} \left( e_{i}^{2} \chi^{2} + 2e_{i} f_{i} \chi + f_{i}^{2} \right) \left( g_{z} \chi^{2} + h_{z} \chi + k_{z} \right) \\ &= -\alpha_{z} \left( e_{i}^{2} g_{z} \chi^{4} + e_{i}^{2} h_{z} \chi^{3} + e_{i}^{2} k_{z} \chi^{2} + 2e_{i} f_{i} g_{z} \chi^{3} + 2e_{i} f_{i} h_{z} \chi^{2} + 2e_{i} f_{i} k_{z} \chi + f_{i}^{2} g_{z} \chi^{2} + f_{i}^{2} h_{z} \chi + f_{i}^{2} k_{z} \right) \\ &= -\alpha_{z} e_{i}^{2} g_{z} \chi^{4} - \alpha_{z} e_{i}^{2} h_{z} \chi^{3} - 2\alpha_{z} e_{i}^{2} f_{i} g_{z} \chi^{3} - 2\alpha_{z} e_{i}^{2} k_{z} \chi^{2} - 2\alpha_{z} f_{i}^{2} h_{z} \chi^{2} - 2\alpha_{z} f_{i}^{2} k_{z} \chi^{2} + 2\alpha_{z} f_{i}^{2} k_{z} \chi^{2} + 2\alpha_{z} f_{i}^{2} k_{z} \chi^{2} - 2\alpha_{z} f_{i}^{2} k_{z} \chi^{2} + 2\alpha_{z} f_{i}^{2} k_{z} \chi^{2} + 2\alpha_{z} f_{i}^{2} k_{z}$$

- 2) Some as 1) switch all subscript
- 3)  $-\alpha_{2}^{2}C_{1}^{2} = -\alpha_{2}^{2}\left(g_{1}x^{2} + h_{1}x + k_{1}\right)^{2} = -\alpha_{2}^{2}\left(g_{1}^{2}x^{4} + h_{1}^{2}x^{2} + k_{1}^{2} + 2g_{1}h_{1}x^{3} + 2g_{1}k_{1}x^{2} + 2h_{1}k_{1}x\right)$   $= -\alpha_{2}^{2}g_{1}^{2}x^{4} \alpha_{2}^{2}h_{1}^{2}x^{2} 2\alpha_{2}^{2}g_{1}h_{1}x^{3} 2\alpha_{2}^{2}g_{1}k_{1}x^{2} 2\alpha_{2}^{2}h_{1}k_{1}x \alpha_{2}^{2}k_{1}^{2}x\right)$
- 4) Same as 3 switch all subscript.
- 5).  $a_2b_1b_2c_1 = a_2(e_1x+f_1)(e_2x+f_2)(g_1x^2+h_1x+k) = a_1e_1e_2x^2+e_1e_2f_2x+e_2f_1x+f_1f_2)(g_1x^2+h_1x+k_1)$   $= \underbrace{(e_1e_2f_2+e_2f_1)}_{x}x$
- 6) Same as 5) switch all subscript
- 7). Za,az c, (z= h(g,x2+h,x+k,)(g2x2+h2x+kz)
  = ng,g2x4+ng,h2x3+ng,k2x2+nh,g2x3+nh,b2x2+nh,k2x+nk,g2x2+nk,h2x+nk,kz,

## ATTEMPT #1

15-1-Th

$$-b_{1} \pm \int_{b_{1}}^{2} -4a_{1}C_{1} = -b_{2} \pm \int_{b_{1}}^{2} -4a_{2}C_{2}$$

$$2a_{1}$$

FAILED ATTEM P2.1/16 = 01+6+20c-02-02

#2