###### Obliczenie wcięcia kątowego w przód za pomocą symboli rachunkowych

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UUwagi i szkice *P*  *β α*  ***B***  ***A*** | | | | FORMA RACHUNKOWA NA **KĄTOWE WCIĘCIE W PRZÓD** | | | | | | | | | | | |
| ***X*A** |  | | | | ***Y*A** | |  | ***X*B** |  | ***Y*B** |  |
| **-1** | *-1* | | | | **ctg *β*** | |  | **+1** | *+1* | **ctg *α*** |  |
| ***A*** |  | | | | ***B*** | |  | ***C*** |  | **Nr pt.** |  |
| Wzory : (*XP,YP)=* | | | | | | | | WSPÓŁRZĘDNE PUNKTU WCINANEGO | | | |
| ***XP*** |  | ***YP*** |  |
| **Kąt** | *g*  **°** | *c*  **′** | *cc*  **″** |
| ***α*** |  |  |  |  | | | | | |  | | | Kontrola: Obliczenie kąta γ ze współrzędnych:  =  *γobl* = ........................... | | |
| ***β*** |  |  |  |
| ***γ*dane=**  **180°-( *α+β*)** |  |  |  | ***γ*obl.** | |  |  |  | |

###### Obliczenie wcięcia kątowego w przód za pomocą symboli rachunkowych

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UUwagi i szkice *P*  *β α*  ***B***  ***A*** | | | | FORMA RACHUNKOWA NA **KĄTOWE WCIĘCIE W PRZÓD** | | | | | | | | | | | |
| ***X*A** |  | | | | ***Y*A** | |  | ***X*B** |  | ***Y*B** |  |
| **-1** | *-1* | | | | **ctg *β*** | |  | **+1** | *+1* | **ctg *α*** |  |
| ***A*** |  | | | | ***B*** | |  | ***C*** |  | **Nr pt.** |  |
| Wzory : (*XP,YP)=* | | | | | | | | WSPÓŁRZĘDNE PUNKTU WCINANEGO | | | |
| ***XP*** |  | ***YP*** |  |
| **Kąt** | *g*  **°** | *c*  **′** | *cc*  **″** |
| ***α*** |  |  |  |  | | | | | |  | | | Kontrola: Obliczenie kąta γ ze współrzędnych:  =  *γobl* = ........................... | | |
| ***β*** |  |  |  |
| ***γ*dane=**  **180°-( *α+β*)** |  |  |  | ***γ*obl.** | |  |  |  | |

###### Obliczenie wcięcia kątowego w przód za pomocą symboli rachunkowych

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UUwagi i szkice *P*  *β α*  ***B***  ***A*** | | | | FORMA RACHUNKOWA NA **KĄTOWE WCIĘCIE W PRZÓD** | | | | | | | | | | | |
| ***X*A** |  | | | | ***Y*A** | |  | ***X*B** |  | ***Y*B** |  |
| **-1** | *-1* | | | | **ctg *β*** | |  | **+1** | *+1* | **ctg *α*** |  |
| ***A*** |  | | | | ***B*** | |  | ***C*** |  | **Nr pt.** |  |
| Wzory : (*XP,YP)=* | | | | | | | | WSPÓŁRZĘDNE PUNKTU WCINANEGO | | | |
| ***XP*** |  | ***YP*** |  |
| **Kąt** | *g*  **°** | *c*  **′** | *cc*  **″** |
| ***α*** |  |  |  |  | | | | | |  | | | Kontrola: Obliczenie kąta γ ze współrzędnych:  =  *γobl* = ........................... | | |
| ***β*** |  |  |  |
| ***γ*dane=**  **180°-( *α+β*)** |  |  |  | ***γ*obl.** | |  |  |  | |

###### Obliczenie wcięcia kątowego w przód za pomocą symboli rachunkowych

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UUwagi i szkice *P*  *β α*  ***B***  ***A*** | | | | FORMA RACHUNKOWA NA **KĄTOWE WCIĘCIE W PRZÓD** | | | | | | | | | | | |
| ***X*A** |  | | | | ***Y*A** | |  | ***X*B** |  | ***Y*B** |  |
| **-1** | *-1* | | | | **ctg *β*** | |  | **+1** | *+1* | **ctg *α*** |  |
| ***A*** |  | | | | ***B*** | |  | ***C*** |  | **Nr pt.** |  |
| Wzory : (*XP,YP)=* | | | | | | | | WSPÓŁRZĘDNE PUNKTU WCINANEGO | | | |
| ***XP*** |  | ***YP*** |  |
| **Kąt** | *g*  **°** | *c*  **′** | *cc*  **″** |
| ***α*** |  |  |  |  | | | | | |  | | | Kontrola: Obliczenie kąta γ ze współrzędnych:  =  *γobl* = ........................... | | |
| ***β*** |  |  |  |
| ***γ*dane=**  **180°-( *α+β*)** |  |  |  | ***γ*obl.** | |  |  |  | |