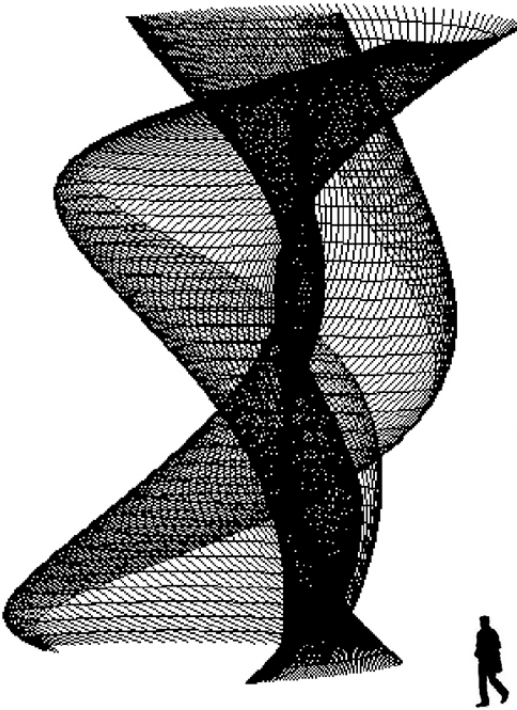


MATEMATIKA U ARHITEKTURI 2

Arhitektonski fakultet Univerziteta u Beogradu, Prof. dr Ljiljana Petruševski, Student Milica Marković, 2013/145

POVRŠI U PROSTORU

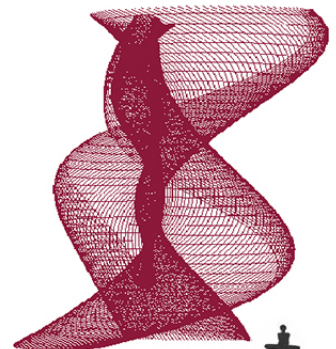
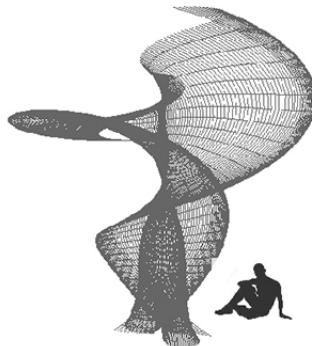
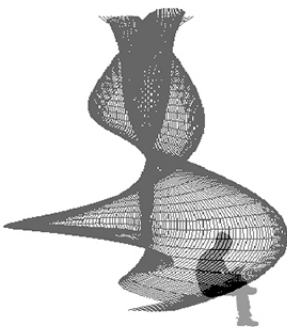


Oblici dobijeni ovim matematičkim postupkom poseduju skulpturalne kvalitete, koji artikuliraju okolni prostor i pružaju mogućnost za razne funkcije.

Potreba da urbana sredina ima orijentir koji ujedno može pružiti drugu vizuru na okolinu je prilika da se objedine skulpturalne i arhitektonske forme.

Coordinates: Cylindrical
Function
 $a(u,v,t) = u \cdot \cos(v) + 4 \cdot \sin(v) + v \cdot \cos(u)$
 $R(u,v,t) = 2 \cdot \tan(v) + u \cdot \cos(u)$
 $Z(u,v,t) = 12 \cdot v$
Domain of variable
Min U: -4 Max U: 4 Steps: 180
Min V: -4 Max V: 4 Steps: 180

Coordinates: Cylindrical
Function
 $a(u,v,t) = 4 \cdot \cos(v) + 4 \cdot \sin(v) + v \cdot \cos(u)$
 $R(u,v,t) = u \cdot \tan(v) + u \cdot \cos(u)$
 $Z(u,v,t) = 12 \cdot v$
Domain of variable
Min U: -4 Max U: 4 Steps: 180
Min V: -4 Max V: 4 Steps: 180



Faculty of Architecture, University of Belgrade, Prof. Ljiljana Petruševski, Student Milica Marković 2013/145

MATEMATICS IN ARCHITECTURE 2