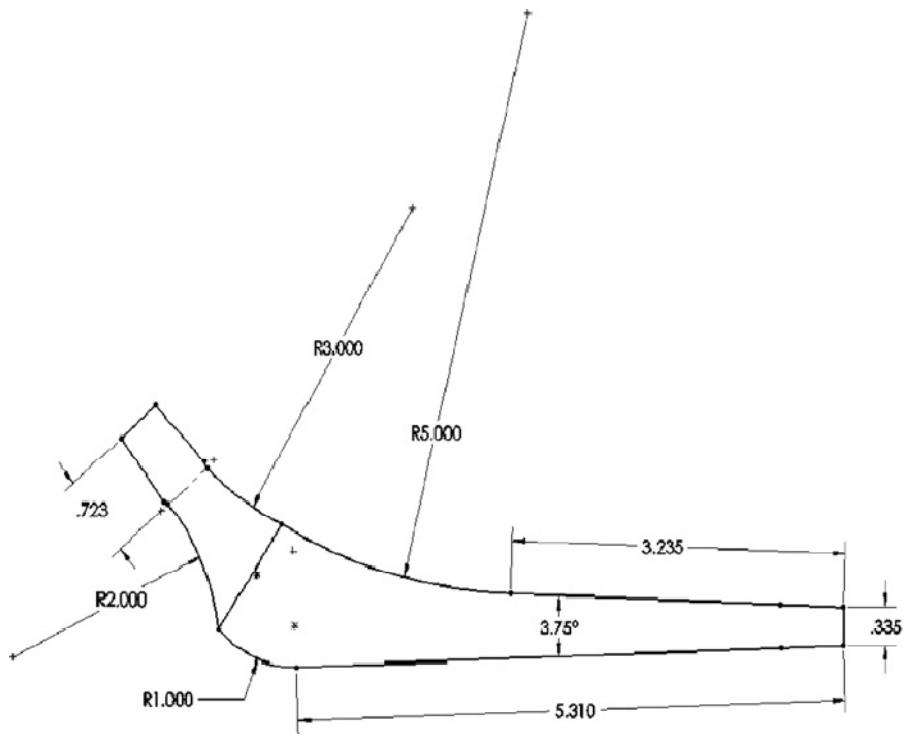


## DAFTAR PUSTAKA

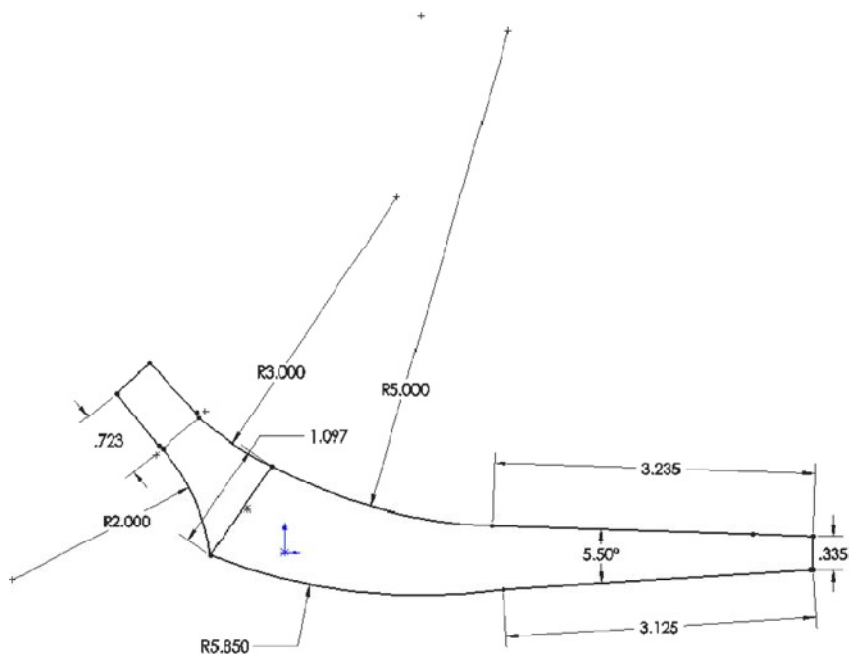
1. <http://www.qualitycaremexico.com/specialties/orthopedic-treatments/>
2. <http://pennstatehershey.adam.com/graphics/images/en/19905.jpg>
3. <http://www.aurorahealthcare.org/yourhealth/healthgate/images/si1646.jpg>
4. Johnson, K. L., 1985, "*Contact Mechanics*", Cambridge University Press, Cambridge, UK.
5. Sabatini, Anthony L, 2007, "*Hip Implants VII: Finite Element Analysis and Optomization of cross-section*", Wright State University, United States
6. <http://www.orthopedicsurgerybook.com>
7. Jye, Wong King, 2006, "*Stress Analysis of Femur and Femoral Stem for Hip Arthoplasty*", Faculty of Mechanical Engineering, University Teknologi Malaysia.
8. <http://earlsview.com/2011/08/14/birmingham-hip-resurfacing-or-surface-replacement-arthroplasty-bhr-with-stem/>
9. [www.stryker.com](http://www.stryker.com)
10. Mahaisavariya, Banchong, 2002, "*Morphological study of the proximal femur: a new method of geometrical assessment using 3-dimensional reverse engineering*", Department of Orthopedic Surgery, Faculty of Medicine, Siriraj Hospitol, Mahidol University, Bangkok Thailand.
11. Surin, V., 2002, "*Facts about Total Hip Replcements: Cemented and Cementless Total Hip Replacements*", HB Valdemar Surin Surin.
12. Mulroy, R. D., Harris, W. H., 1990, "*The Effect of Improved Cementing Techniques on Component Loosening in Total Hip Replacement: An Eleven Year Radiographic Review*", Journal of Bone Joint Surgery British, 72: 757-760.
13. Hench, L.L. and Erthridge, E.C., 1982, "*Biomaterials: An Interfacial Approach*", Academic Press, New York.
14. Joshi, M. G, 2000, "*Analysis of a Femoral Hip Prothesisto Reduce Stress Shielding*", J. Biomechanics vol 33. pp1655-1662

15. Huiskes, R, 1987, "*Adaptive Bone-Remodeling Theory Applied to Prosthetic-Design Analysis*", J. Biomechanics vol 20. pp1135-1150
16. Mishra, 2009, "*The proximal femur –a second look at rational of implant design*", Department of Orthopedic, Nepal.
17. Suhendra, N, 2005, "*Analysis of mechanical and thermal response of total hip joint replacement acetabular components using FEM model, prosiding semiloka teknologi simulasi dan komputasi serta aplikasi*", p 95-103.
18. Kaddick, C, 1997, "*Mechanical Simulation of Composite Hip Stem*" Arbeitsgruppe Endoprothetik, Munchen, Germany.
19. Weisse, 2003, "*Improvement of the reliability of ceramic hip joint implants*" Laboratory of Strength/Technology, Switzerland.
20. Callister, W.D., 2007, "*Materials Science and Engineering: An Introduction 7ed*", John Wiley and Son, New York.
21. Cameron, 1950, "*The Incidence of Congenital Dislocation of The Hip at Island Lake, Manitoba*", Canada
22. Paul, J. P., 1976, "*A Discussion on the Treatment of Arthritis by Joint Replacement*", Proceedings of the Royal Society of London. Series B, Biological Sciences, Vol. 192, No. 1107, pp. 163-172.
23. www.orthoload. com, akses: 20 Juli 2009)
24. Timoshenko S, Goodier J N, "*Theory of elasticity*", 2nd rev. ed. McGraw Hill, New York", 1951:372-7.
25. Varnes, D.J., Smith, W.K., Savage, W.Z., and Varnes, K.L., 1993, "*Control and deformation surveys at the Slumgullion Slide*", Hinsdale County, Colorado--A progress report: U.S. Geological Survey Open-File Report 93-577, 15 p., 1 pl.
26. Cafflin FS, Singer FR, 1995, "*Pager's Disease of Bone: Path of Physiology, Diagnosis, and Management*. J Am Acad Orthop Surg;3:336-334
27. Ramos, Antonio, 2003, "*A Preliminary Investigation on The Influence of Cross Section Geometry on Cemented Interfae Stresses in Femoral Hip Replacements*" International Conference "Simulations in Biomedicine", Ljubljana, Slovenia

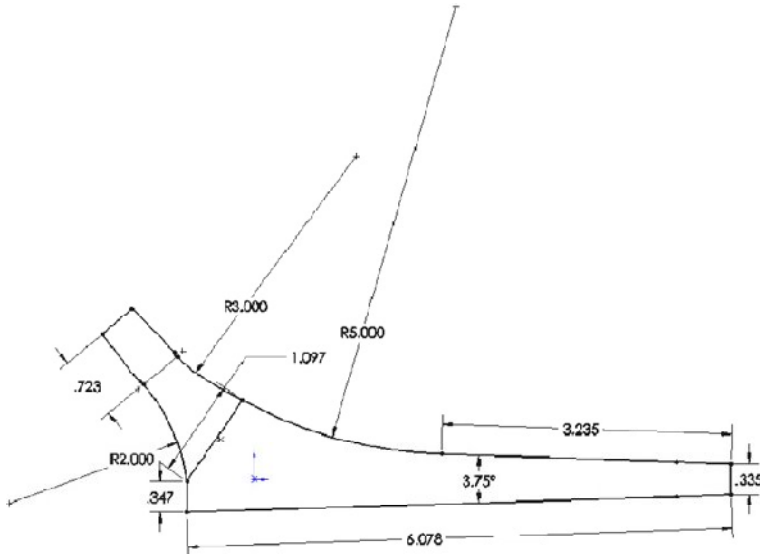
28. Pyburn E, Goswami T, 2004, "*Finite Element Analysis of Femoral Components Paper III – Hip Joints*" Mater (8):705-13
29. Katoozian H, Davy T, 2000, "*Effects of Loading Conditions and Objective on Three-Dimensional Shape Optimization of Femoral Components of Hip Endoprostheses*", Med Eng Phys 2000;22(4):243-51
30. [http://www.lib.umich.edu/dentilib/Dental\\_tables/Ulittensstr.html](http://www.lib.umich.edu/dentilib/Dental_tables/Ulittensstr.html).
31. Madenci, E., and Guven, I., 2006, "*The finite Element Method and Application in Engineering*", The University of Arizona, Springer Science-Business Media, United States of America
32. Desai, C. S., and Abel, J. F., 1972, "*Introduction To The Finite Element Method*", Van Nostrand Reinhold Company, New York, United States of America.
33. ([www.nlm.nih.gov](http://www.nlm.nih.gov))
34. ([www.gardenrain.wordpress.com](http://www.gardenrain.wordpress.com))
35. Alvarado, Jorge, 2003, "*Biomechanics of Hip and Knee Prostheses*", University of Puerto Rico Mayaguez, Puerto Rico.
- 36.



Gambar x.x Hip Profile 1

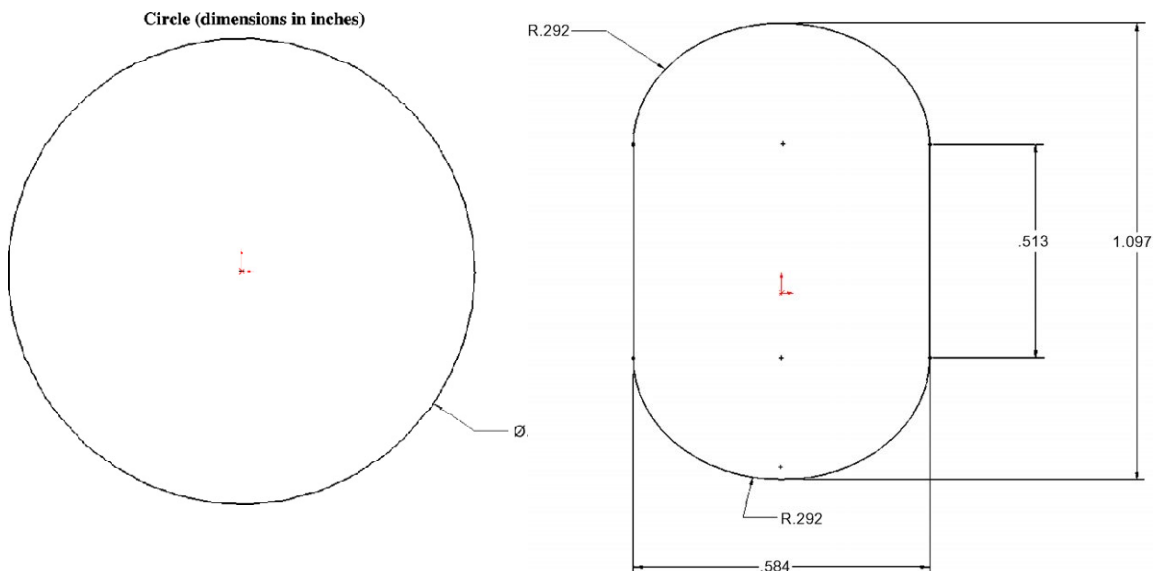


Gambar x.x Hip Profile 2



Gambar x.x Hip profile 3

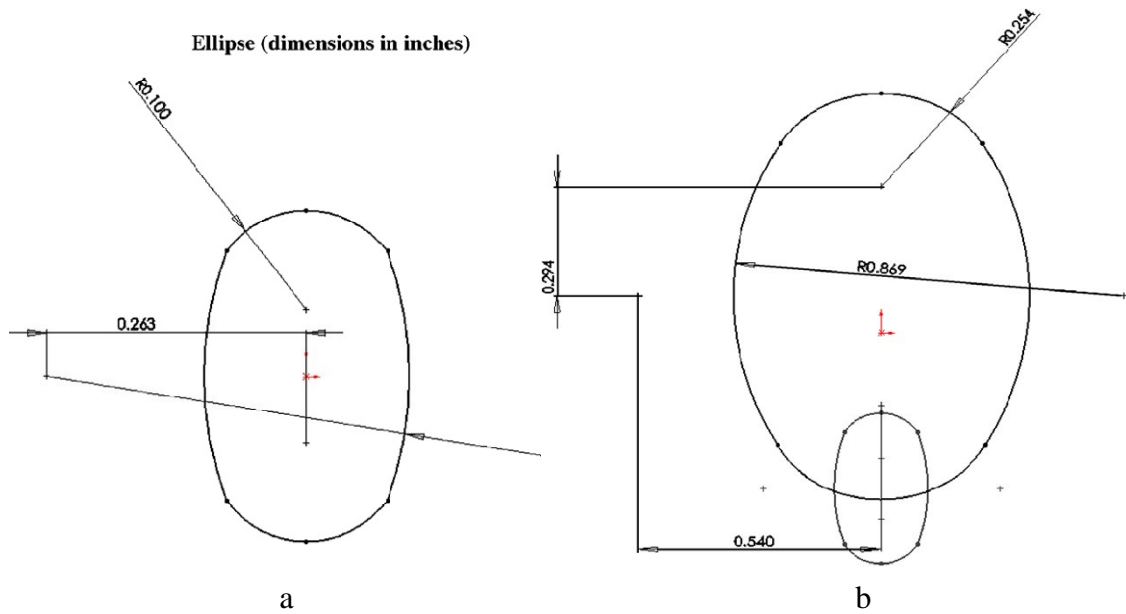
Ukuran dimensi yang digunakan dalam pemodelan ini menggunakan ukuran dari hasil wawancara dengan dokter spesialis ortopedi di RS. Prof dr.R.Soeharo Solo dan jurnal dari Sabatini.



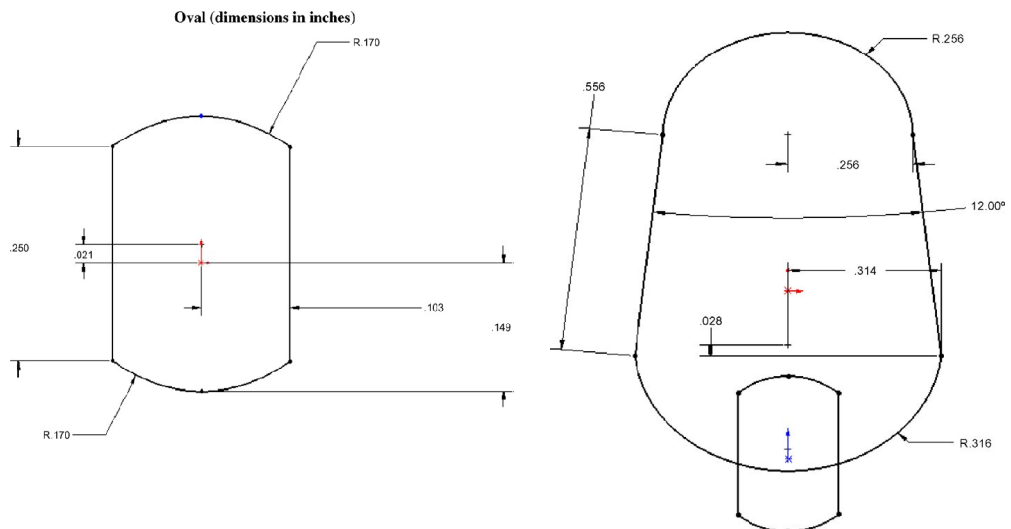
a

b

Gambar x.x a) Distal cross section, circle b) proximal cross section, circle



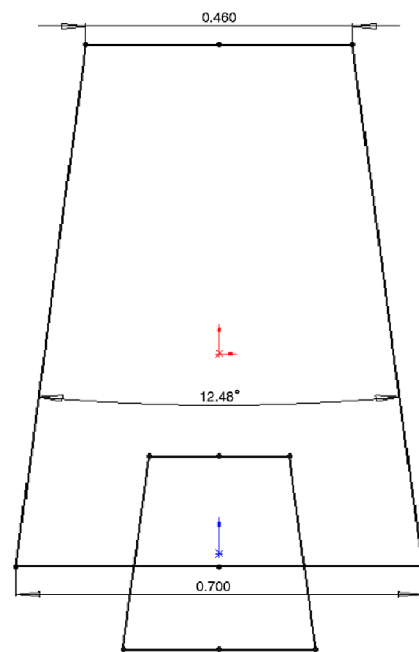
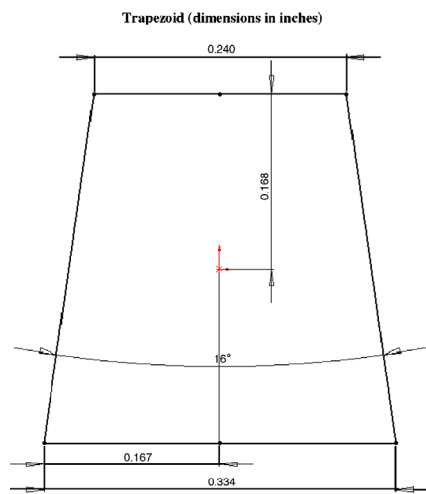
Gambar x.x a) Distal cross section, ellipse b) Proximal cross section, ellipse



a

b

Gambar x.x a) Distal Cross section, Oval b) Proximal cross section, Oval



a

b

Gambar.x.x a) Distal cross section, Trapezoid b) Proximal cross section, Trapezoid