
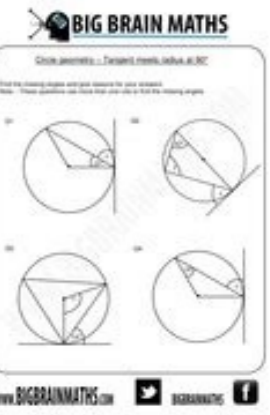
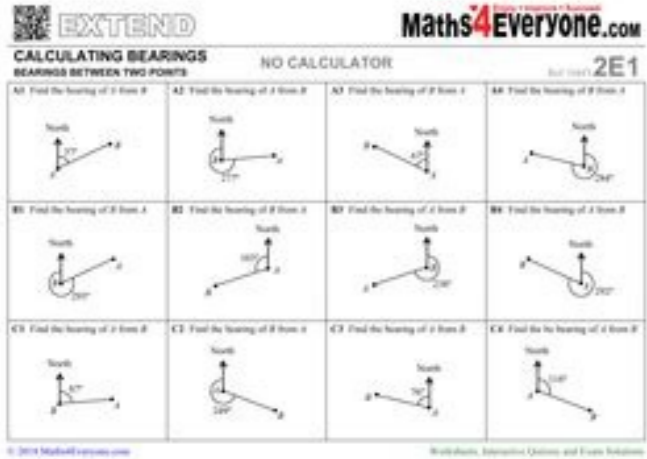
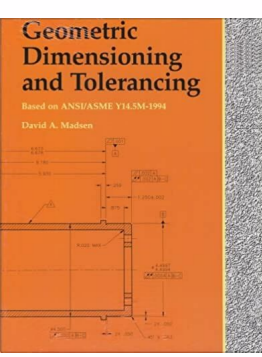


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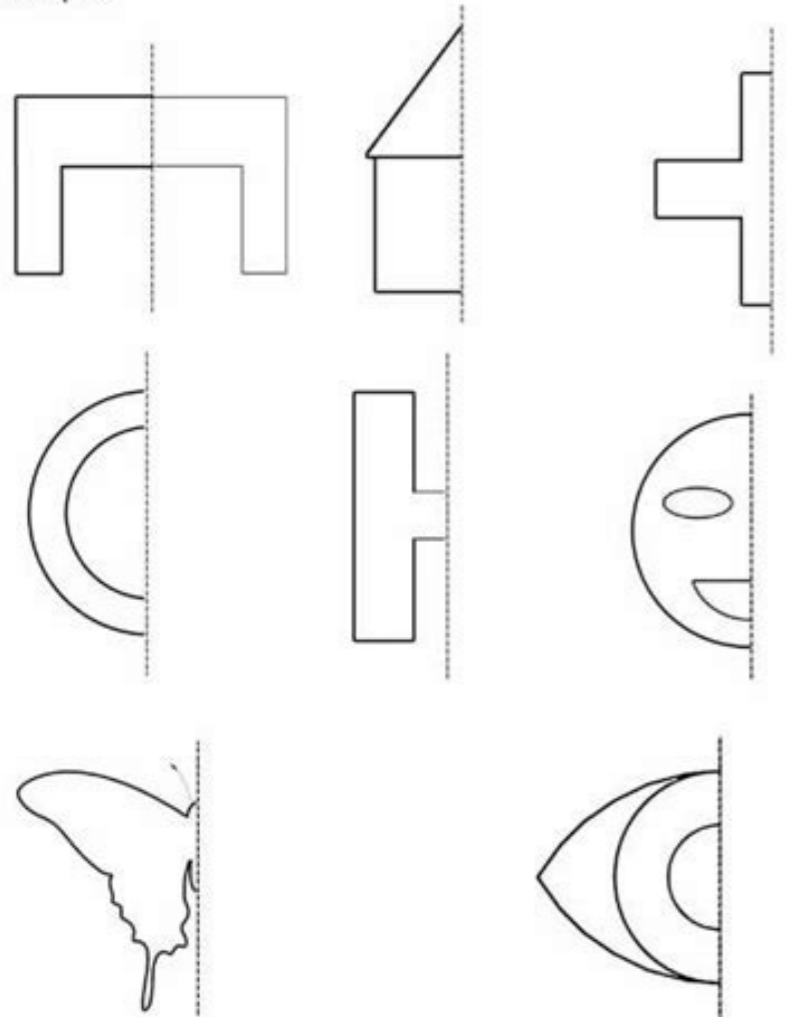
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SYMMETRY

Draw the other half of each symmetrical shape.

Example:



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Precis Eng 19(1):28-36Article Google Scholar Gou JB (1999) A geometric theory of form, profile and orientation tolerances. Division of Thomas Learning Inc., DelmarGreen P (2005) The geometrical tolerancing desk reference: creating and interpreting ISO standard technical drawings. Int J Mach Tool Manu 42(14):1589-1594Article Google Scholar Wen X, Xia Q, Zhao Y (2007) An effective genetic algorithm for circularity error unified evaluation. The historical development of GD&T was experiences of the munitions industry in the U.S. an Britain, which based their production operations on the "plus-minus tolerance" or conventional tolerancing practice. Precis Eng 32:232-237Article Google Scholar Anthony GT, Anthony HM et al (1996) Reference software for finding Chebyshev best-fit geometric elements. Artif Intell Eng Des Anal Manuf 11:325-341. This paper focuses on design graphics courses that currently used at Istanbul Technical University for Mechanical Engineering Faculty students. Wartime production was hampered by the high scrap rates due to parts that would not assemble properly (Kurlikowski, 1991). GD&T is a universal design engineering language that is being used to capture and transmit the designer's intent to all activities in the product cycle. It make also necessary to have completely toleranced drawing for the function, for manufacturing and quality control. IEEE J Robot Autom RA-2(3):156-166Article Google Scholar Guilfor J, Turner JD (1993) Representational primitives for geometric tolerancing. Taguchi G (1986) Introduction to quality engineering: designing quality into products and processes. Comput Aided Des 33:853-865Article Google Scholar Zhu LM, Ding H, Xiong YL (2003) A steepest descent algorithm for circularity evaluation. This language has also been adopted by many car manufacturing enterprises. Teaching alternatives was a response to some problems that we were facing in terms of student motivation, interest and retention of basic concepts in Geometric Dimensioning and Tolerancing. The author is of the opinion that GD&T should be revisited in design graphic courses so that students may better internalize GD&T concepts. Comput Aided Des 25(9):577-586Article Google Scholar Turner JU (1990) Relative positioning of parts in assembly using mathematical programming. Technical developments are constraint imposed by economy and need for rationalization. Comput Ind 57:319-330Article Google Scholar Requicha AAG, Chan SC (1986) Representation of geometric features tolerances and attributes in solid models based on constructive geometry. Int J Mach Tool Manu 47:1229-1236Article Google Scholar Moroni G, Petró S (2008) Geometric tolerance evaluation: a discussion on minimum zone fitting algorithms. Introduction of GD&T into the engineering curriculum are design graphics courses. 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ASME Manuf Rev 5(3):213-220 Google Scholar Kanada T, Suzuki S (1993) Application of several computing techniques for minimum zone straightness. Precis Eng 15(4):274-280Article Google Scholar Makelainen E, Heilala J (2001) Assembly process level tolerance analysis for electromechanical products. Keywords: Teaching methods, Curriculum, Geometric dimensioning and tolerancing. GD&T is used as a standard or benchmark from which industry may begin their continuous improvement processes. McGraw-Hill Professional, New York Google Scholar Zhao X, Pasupathy TM, Wilhelm RG (2006) Modelling and representation of geometric tolerances information in integrated measurement processes. GD&T has been developed by the International Organization for Standardization (ISO) and translate to Turkish by Turkish Standards Institute (TSE), and many other national standards. Google Scholar Roy U, Li B (1999) Representation and interpretation of polyhedral objects II. 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Comput Aided Des 31(13):829-843Article MATH Google Scholar Gupta S, Turner JU (1991) Variational solid modelling for tolerance analysis. Google Scholar Teck TB, Kumar AS, Subramanian V (2001) A CAD integrated analysis of flatness in a form tolerance zone. Precis Eng 24(3):251-263Article Google Scholar Samuel GL, Shunmugam MS (1999) Evaluation of straightness and flatness error using computational geometric techniques. In: Proceedings of the IEEE international symposium on assembly and task planning, 2001, pp 405-410Page 2 From: Current status and challenges of using geometric tolerance information in intelligent manufacturing systems ASME 14.5M ISO 1101 Basic dimension Theoretical exact dimension (TED) Feature control Frames Tolerance frame Variation Deviation True position (TP) Theoretical exact position Reference dimension Auxiliary dimension 114 International Conference on New Trends in Education and Their Implications 11-13 November, 2010 Antalya-Turkey ISBN: 978 605 364 104 9 Teaching Geometric Dimensioning and Tolerancing in Design Graphic Courses Serpil Kurt, Mechanical Engineering Faculty of Istanbul Technical University, Gumussuyu Campus Taksim Istanbul, Turkey. kurtserp@itu.edu.tr Abstract Today Geometric Dimensioning and Tolerancing (GD&T) is an essential subject of the mechanical and manufacturing engineering curricula. Technical report of National Physical Laboratory, Middlesex, UKGou JB, Chu YX, Li ZX (1998) On the symmetry localization problem. Comput Aided Des 22(7):394-400Article Google Scholar Samuel GL, Shunmugam MS (2000) Evaluation of circularity from coordinate and form data using computational geometric techniques. As a consequence, today GD&T is an essential subject of the mechanical and manufacturing engineering curricula. Completely toleranced means that the geometries (form, size, orientation and location)of geometrical elements of the parts are completely defined and tolerance. Comput Aided Des 35(3):255-265Article Google Scholar Dhanish PB (2002) A simple algorithm for evaluation of minimum zone circularity error from coordinate data. Design graphics courses are a adequate course for the introduction of basic concepts.

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