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CALCULATING PRESSURE ANGLE OF CUTTING
 Tool: Fig. (d) - Grouped 9 teeth.
 Pressure angle = 13.82 deg. $\phi = 13.82^\circ$

1. $\mathcal{F}_1 = \{f_1, f_2, \dots, f_n\}$ is a family of functions from X to Y .
 2. $\mathcal{F}_2 = \{g_1, g_2, \dots, g_m\}$ is a family of functions from Y to Z .
 3. $\mathcal{F}_3 = \{h_1, h_2, \dots, h_p\}$ is a family of functions from Z to W .
 4. $\mathcal{F}_4 = \{i_1, i_2, \dots, i_q\}$ is a family of functions from W to V .
 5. $\mathcal{F}_5 = \{j_1, j_2, \dots, j_r\}$ is a family of functions from V to U .
 6. $\mathcal{F}_6 = \{k_1, k_2, \dots, k_s\}$ is a family of functions from U to T .
 7. $\mathcal{F}_7 = \{l_1, l_2, \dots, l_t\}$ is a family of functions from T to S .
 8. $\mathcal{F}_8 = \{m_1, m_2, \dots, m_u\}$ is a family of functions from S to R .
 9. $\mathcal{F}_9 = \{n_1, n_2, \dots, n_v\}$ is a family of functions from R to Q .
 10. $\mathcal{F}_{10} = \{o_1, o_2, \dots, o_w\}$ is a family of functions from Q to P .
 11. $\mathcal{F}_{11} = \{p_1, p_2, \dots, p_x\}$ is a family of functions from P to O .
 12. $\mathcal{F}_{12} = \{q_1, q_2, \dots, q_y\}$ is a family of functions from O to N .
 13. $\mathcal{F}_{13} = \{r_1, r_2, \dots, r_z\}$ is a family of functions from N to M .
 14. $\mathcal{F}_{14} = \{s_1, s_2, \dots, s_{10}\}$ is a family of functions from M to L .
 15. $\mathcal{F}_{15} = \{t_1, t_2, \dots, t_{10}\}$ is a family of functions from L to K .
 16. $\mathcal{F}_{16} = \{u_1, u_2, \dots, u_{10}\}$ is a family of functions from K to J .
 17. $\mathcal{F}_{17} = \{v_1, v_2, \dots, v_{10}\}$ is a family of functions from J to I .
 18. $\mathcal{F}_{18} = \{w_1, w_2, \dots, w_{10}\}$ is a family of functions from I to H .
 19. $\mathcal{F}_{19} = \{x_1, x_2, \dots, x_{10}\}$ is a family of functions from H to G .
 20. $\mathcal{F}_{20} = \{y_1, y_2, \dots, y_{10}\}$ is a family of functions from G to F .
 21. $\mathcal{F}_{21} = \{z_1, z_2, \dots, z_{10}\}$ is a family of functions from F to E .
 22. $\mathcal{F}_{22} = \{a_1, a_2, \dots, a_{10}\}$ is a family of functions from E to D .
 23. $\mathcal{F}_{23} = \{b_1, b_2, \dots, b_{10}\}$ is a family of functions from D to C .
 24. $\mathcal{F}_{24} = \{c_1, c_2, \dots, c_{10}\}$ is a family of functions from C to B .
 25. $\mathcal{F}_{25} = \{d_1, d_2, \dots, d_{10}\}$ is a family of functions from B to A .
 26. $\mathcal{F}_{26} = \{e_1, e_2, \dots, e_{10}\}$ is a family of functions from A to Z .
 27. $\mathcal{F}_{27} = \{f_1, f_2, \dots, f_{10}\}$ is a family of functions from Z to Y .
 28. $\mathcal{F}_{28} = \{g_1, g_2, \dots, g_{10}\}$ is a family of functions from Y to X .
 29. $\mathcal{F}_{29} = \{h_1, h_2, \dots, h_{10}\}$ is a family of functions from X to Y .
 30. $\mathcal{F}_{30} = \{i_1, i_2, \dots, i_{10}\}$ is a family of functions from Y to X .
 31. $\mathcal{F}_{31} = \{j_1, j_2, \dots, j_{10}\}$ is a family of functions from X to Y .
 32. $\mathcal{F}_{32} = \{k_1, k_2, \dots, k_{10}\}$ is a family of functions from Y to X .
 33. $\mathcal{F}_{33} = \{l_1, l_2, \dots, l_{10}\}$ is a family of functions from X to Y .
 34. $\mathcal{F}_{34} = \{m_1, m_2, \dots, m_{10}\}$ is a family of functions from Y to X .
 35. $\mathcal{F}_{35} = \{n_1, n_2, \dots, n_{10}\}$ is a family of functions from X to Y .
 36. $\mathcal{F}_{36} = \{o_1, o_2, \dots, o_{10}\}$ is a family of functions from Y to X .
 37. $\mathcal{F}_{37} = \{p_1, p_2, \dots, p_{10}\}$ is a family of functions from X to Y .
 38. $\mathcal{F}_{38} = \{q_1, q_2, \dots, q_{10}\}$ is a family of functions from Y to X .
 39. $\mathcal{F}_{39} = \{r_1, r_2, \dots, r_{10}\}$ is a family of functions from X to Y .
 40. $\mathcal{F}_{40} = \{s_1, s_2, \dots, s_{10}\}$ is a family of functions from Y to X .
 41. $\mathcal{F}_{41} = \{t_1, t_2, \dots, t_{10}\}$ is a family of functions from X to Y .
 42. $\mathcal{F}_{42} = \{u_1, u_2, \dots, u_{10}\}$ is a family of functions from Y to X .
 43. $\mathcal{F}_{43} = \{v_1, v_2, \dots, v_{10}\}$ is a family of functions from X to Y .
 44. $\mathcal{F}_{44} = \{w_1, w_2, \dots, w_{10}\}$ is a family of functions from Y to X .
 45. $\mathcal{F}_{45} = \{x_1, x_2, \dots, x_{10}\}$ is a family of functions from X to Y .
 46. $\mathcal{F}_{46} = \{y_1, y_2, \dots, y_{10}\}$ is a family of functions from Y to X .
 47. $\mathcal{F}_{47} = \{z_1, z_2, \dots, z_{10}\}$ is a family of functions from X to Y .
 48. $\mathcal{F}_{48} = \{a_1, a_2, \dots, a_{10}\}$ is a family of functions from Y to X .
 49. $\mathcal{F}_{49} = \{b_1, b_2, \dots, b_{10}\}$ is a family of functions from X to Y .
 50. $\mathcal{F}_{50} = \{c_1, c_2, \dots, c_{10}\}$ is a family of functions from Y to X .
 51. $\mathcal{F}_{51} = \{d_1, d_2, \dots, d_{10}\}$ is a family of functions from X to Y .
 52. $\mathcal{F}_{52} = \{e_1, e_2, \dots, e_{10}\}$ is a family of functions from Y to X .
 53. $\mathcal{F}_{53} = \{f_1, f_2, \dots, f_{10}\}$ is a family of functions from X to Y .
 54. $\mathcal{F}_{54} = \{g_1, g_2, \dots, g_{10}\}$ is a family of functions from Y to X .
 55. $\mathcal{F}_{55} = \{h_1, h_2, \dots, h_{10}\}$ is a family of functions from X to Y .
 56. $\mathcal{F}_{56} = \{i_1, i_2, \dots, i_{10}\}$ is a family of functions from Y to X .
 57. $\mathcal{F}_{57} = \{j_1, j_2, \dots, j_{10}\}$ is a family of functions from X to Y .
 58. $\mathcal{F}_{58} = \{k_1, k_2, \dots, k_{10}\}$ is a family of functions from Y to X .
 59. $\mathcal{F}_{59} = \{l_1, l_2, \dots, l_{10}\}$ is a family of functions from X to Y .
 60. $\mathcal{F}_{60} = \{m_1, m_2, \dots, m_{10}\}$ is a family of functions from Y to X .
 61. $\mathcal{F}_{61} = \{n_1, n_2, \dots, n_{10}\}$ is a family of functions from X to Y .
 62. $\mathcal{F}_{62} = \{o_1, o_2, \dots, o_{10}\}$ is a family of functions from Y to X .
 63. $\mathcal{F}_{63} = \{p_1, p_2, \dots, p_{10}\}$ is a family of functions from X to Y .
 64. $\mathcal{F}_{64} = \{q_1, q_2, \dots, q_{10}\}$ is a family of functions from Y to X .
 65. $\mathcal{F}_{65} = \{r_1, r_2, \dots, r_{10}\}$ is a family of functions from X to Y .
 66. $\mathcal{F}_{66} = \{s_1, s_2, \dots, s_{10}\}$ is a family of functions from Y to X .
 67. $\mathcal{F}_{67} = \{t_1, t_2, \dots, t_{10}\}$ is a family of functions from X to Y .
 68. $\mathcal$

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Whistler (1972). The total chlorophyll content was determined by the method of Arar and Cook (1977). The carotenoid content was determined by the method of Lichtenthaler and Whistler (1972). The total carotenoid content was determined by the method of Lichtenthaler and Whistler (1972). The total carotenoid content was determined by the method of Lichtenthaler and Whistler (1972).

It is assumed that the material is isotropic and that the pipe is thin-walled, i.e. under an axially symmetric stress state. It is assumed that the pipe is of uniform thickness and that the material is homogeneous. The material properties are assumed to be independent of the pipe thickness and, therefore, of the pipe radius and, hence, of the diameter. The longitudinal forces are assumed to be distributed uniformly. The balance takes up the external pressure in the pipe longitudinally and also the weight of the pipe. The equilibrium equations are:

$$\frac{dM}{dx} = H, \quad \frac{dH}{dx} = P, \quad \frac{dQ}{dx} = -G, \quad \frac{dG}{dx} = 0$$

• **Prevalence** = the proportion of a population that has a disease at a particular point in time

1. 2. 3. 4.

100

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2. Author: V.

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