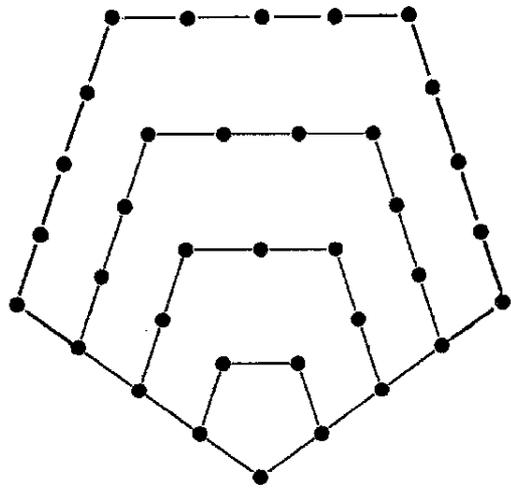


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1. $x \leq 6$ 2. 21 m^3 3. 66.8° 4. 76 cm^2
 5. (a) $\pounds 117.50$ (b) $E = 0.15t + 35$ 6. 1.52×10^8
 7. (a) Tank was refilled (b) BC and DE {the gradient is less}
 8. $P = 2t + 3$ 9. NO; {short by 1.67 l }
 10. (a) $(3x+1)(x-2)$ (b) $m = \frac{3}{8}$ {or 0.375 } (c) $y = 0$ or 6
 11. $PR = 237.7 \text{ m}$ 12. 62.3p per litre
 13. $x = 60.9$ or 240.9
 14. (a) 16 (b) (i) 8 (ii) Number = $\left[\frac{1300}{\text{B}} \right] \times \left[\frac{1000}{\text{L}} \right]$
 15. Height $\doteq 47.7 \text{ m}$ 16. (a) $b+1$ (b) $\frac{3\sqrt{2}}{2}$ (c) $T = \frac{Q-p^2}{3}$
 17. (a) 35 (b) $a = \frac{3}{2}$ $b = \frac{1}{2}$



18. (a) Root is $x \doteq 1.2$ (b) $\frac{2x-10}{x(x-2)}$
 19. (a) $w = 18 - 2x \text{ cm}$ (b) Proof {Hint use $V = l \times b \times h$. Here $V = l \times w \times d$ }
 (c) Dimensions are $100 \text{ cm} \times 9 \text{ cm} \times 4.5 \text{ cm}$