

$$① A_T = \frac{(b_1 + b_2)h}{2} = \frac{(6 + 12) \cdot 8}{2} = 72$$

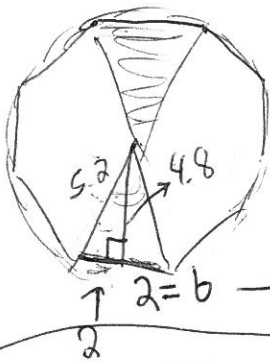
$$A_s = \frac{111}{360} = \frac{x}{360\pi} \rightarrow x = 11.1\pi$$

$$A = 72 + 11.1\pi \approx 106.6 \text{ yd}^2$$

$$② \frac{15 \cdot 13}{2} + \frac{13 \cdot 8}{2} + \frac{17 \cdot 8}{2} = 217.5 \text{ mm}^2$$

$$③ A_p = 9 \cdot 2.8 = 25.2$$

$A_0$



$$\frac{4 \cdot 4.8}{2} \cdot 8$$

$$76.8$$

$$5 \cdot 2^2 = 4.8^2 + b^2$$

$$b = 2$$

$$A = 102 \text{ cm}^2$$

$$\frac{\text{Central Angle}}{360^\circ} = \frac{\text{Arc Length}}{\text{Circumference}} = \frac{\text{Area of Sector}}{\text{Area of Circle}} = \frac{\text{Part}}{\text{Whole}}$$

$$④ \frac{64}{x} = \frac{210^\circ}{360^\circ}$$

$$x \approx 109.7 \text{ in}$$

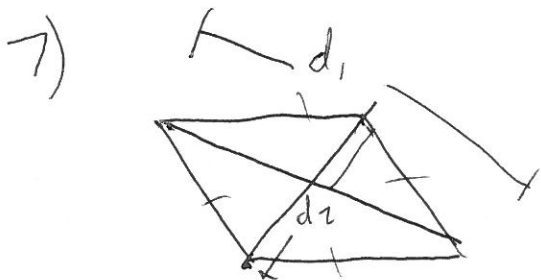
$$⑤ \frac{x^\circ}{360^\circ} = \frac{35}{54\pi} \quad x = 74.3^\circ$$

$$r = 27 \quad D = 54 \quad C = 54\pi$$

$$6) \frac{255}{360} = \frac{x}{64\pi}$$

$$x = \frac{136\pi}{3}$$

$$\approx 142.3$$



$$d_1 = 3d_2$$

$$A = \frac{d_1 \cdot d_2}{2}$$

$$\frac{108}{1} = \frac{3d_2 \cdot d_2}{2}$$

$$\frac{3(d_2)^2}{3} = \frac{216}{3}$$

$$\sqrt{(d_2)^2} = \sqrt{72}$$

$$\begin{array}{c} 36 \\ \sqrt{\phantom{00}} \\ 6 \quad 6 \end{array}$$

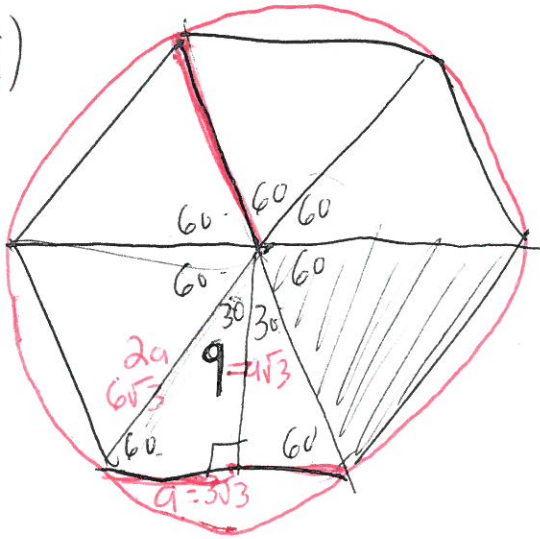
$$d_2 = 6\sqrt{2}$$

$$d_1 = 3(d_2)$$

$$d_1 = 3(6\sqrt{2})$$

$$d_1 = 18\sqrt{2}$$

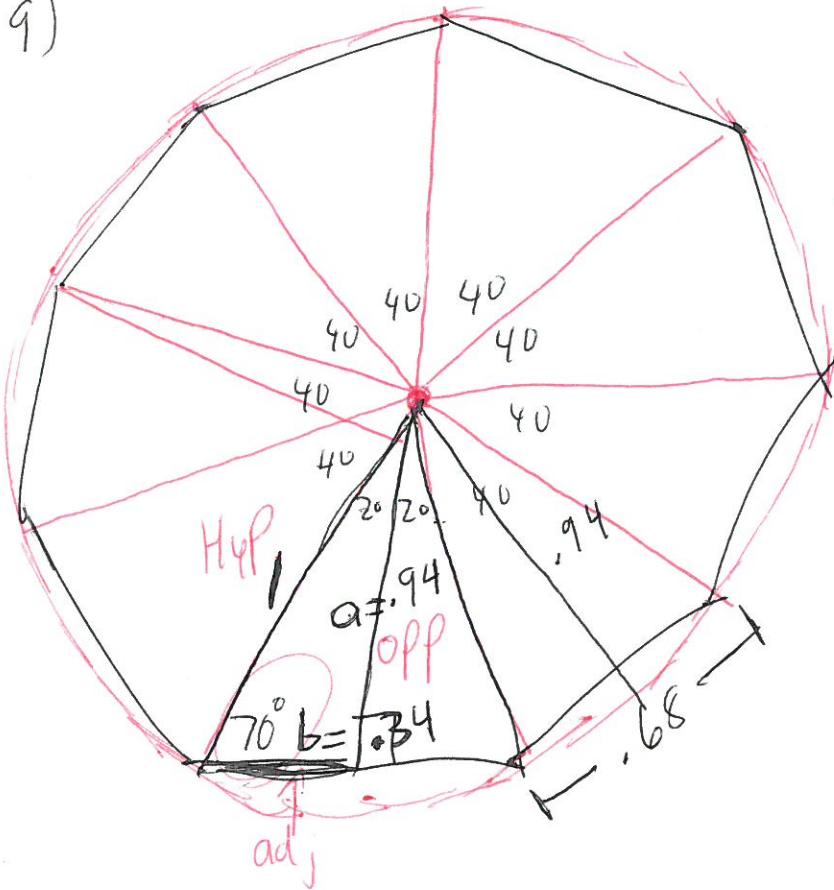
8)



$$A_T = \frac{9 \cdot 6\sqrt{3}}{2}$$

$$A_{HEX} = 6 \cdot 27\sqrt{3} = 162\sqrt{3}$$

9)



$$\frac{360}{9} = 40^\circ$$

~~$$\sin 70 = \frac{a}{1}$$~~

$$\sin 70 = \frac{a}{1} \Rightarrow a = .94$$

$$1^2 = (.94)^2 + b^2$$

$$.1164 = b^2$$

$$.34 = b$$

$$A_T = .32$$

$$A_N = 2.87$$