

11.4

① $8a^2 = (8\sqrt{2})^2$

$8a^2 = 64 \cdot 2$

$a = 8$

$A = \frac{1}{2} \cdot 8 \cdot (16 \cdot 4)$

$A = 256$

② $P = (5 \cdot 2) \cdot 4 = 40$

$r^2 = 12(5^2)$

$r = \sqrt{30} = 5\sqrt{2}$

$A = \frac{1}{2} \cdot (5 \cdot 2) \cdot 4 \cdot 5$

$A = 100$

③ $49 = S^2$

$7 = S$

$a = \frac{7}{2}$

$r^2 = 2 \left(\frac{7}{2} \right)^2$

$r = \sqrt{\frac{49}{2}} = \frac{\sqrt{98}}{2} = \frac{7\sqrt{2}}{2}$

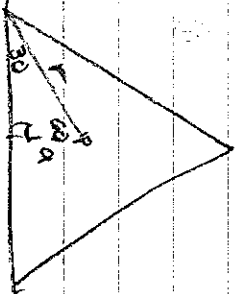
④ $r^2 = \sqrt{6}^2 + \sqrt{6}^2$

$r = \sqrt{12} = 2\sqrt{3}$

$A = \frac{1}{2} \cdot \sqrt{6} \cdot 4(2\sqrt{6})$

$A = 24$

⑤



$r = 6 \Rightarrow a = 3$

$\frac{1}{2} S = 3\sqrt{3} \Rightarrow S = 6\sqrt{3}$

$A = \frac{1}{2} \cdot 3 \cdot 18\sqrt{3} = P$

$A = 27\sqrt{3}$

⑥

$r = 8$

$\frac{1}{2} S = 4\sqrt{3} \Rightarrow S = 8\sqrt{3} \Rightarrow P = 24\sqrt{3}$

$A = \frac{1}{2} \cdot 4 \cdot 24\sqrt{3}$

$A = 48\sqrt{3}$

⑦

$P = 12 \Rightarrow S = 4 \Rightarrow \frac{1}{2} S = 2$

$a = \frac{2\sqrt{3}}{3}$

$A = \frac{1}{2} \cdot \frac{2\sqrt{3}}{3} \cdot 12$

$A = \frac{12\sqrt{3}}{3} = 4\sqrt{3}$

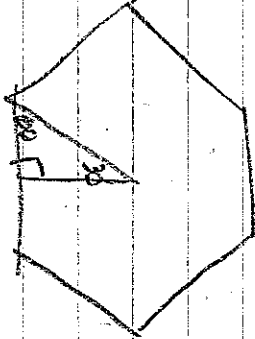
⑧

$P = 9\sqrt{3} \Rightarrow S = 3\sqrt{3} \Rightarrow \frac{1}{2} S = \frac{3\sqrt{3}}{2}$

$a = \frac{3\sqrt{3}}{2\sqrt{3}} = \frac{3}{2}$

$r = 3$ $A = \frac{1}{2} \cdot \frac{3}{2} \cdot 9\sqrt{3} = \frac{27\sqrt{3}}{4}$

9



$$r = 4 \rightarrow \frac{1}{2}S = 2 \rightarrow S = 4 \rightarrow P = \boxed{24}$$

$$a = \boxed{2\sqrt{3}}$$

$$A = \frac{1}{2} \cdot 2\sqrt{3} \cdot 24 \rightarrow \boxed{24\sqrt{3}}$$

10

$$a = 5\sqrt{3} \rightarrow \frac{1}{2}S = 15 \rightarrow S = 10 \rightarrow P = \boxed{60}$$

$$r = \boxed{10}$$

$$A = \frac{1}{2} \cdot 5\sqrt{3} \cdot 60 \rightarrow \boxed{150\sqrt{3}}$$

11

$$a = 6 \rightarrow \frac{1}{2}S = 6\sqrt{3} = 2\sqrt{3} \rightarrow r = \boxed{4\sqrt{3}}$$

$$S = 4\sqrt{3} \rightarrow P = \boxed{24\sqrt{3}}$$

$$A = \frac{1}{2} \cdot 6 \cdot 24\sqrt{3} = \boxed{72\sqrt{3}}$$

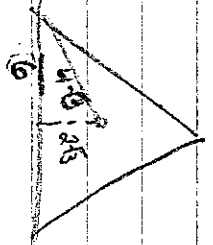
12

$$P = 12\sqrt{3} \rightarrow S = 2\sqrt{3} \rightarrow \frac{1}{2}S = \sqrt{3} \rightarrow a = \sqrt{3} \cdot \sqrt{3} = \boxed{3}$$

$$r = \boxed{2\sqrt{3}}$$

$$A = \frac{1}{2} \cdot 3 \cdot 12\sqrt{3} = \boxed{18\sqrt{3}}$$

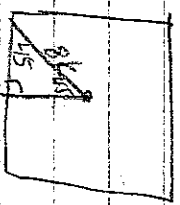
13



$$S = 12 \rightarrow P = \boxed{36}$$

$$A = \frac{1}{2} \cdot 2\sqrt{3} \cdot 36 = \boxed{36\sqrt{3}}$$

14



$$a = \frac{8k}{\sqrt{2}} = \frac{8k\sqrt{2}}{2} = 4k\sqrt{2}$$

$$\frac{1}{2}S = 4k \cdot 2 \rightarrow S = 8k \cdot 2 \rightarrow P = 32k\sqrt{2}$$

$$A = \frac{1}{2} \cdot 4k\sqrt{2} \cdot 32k\sqrt{2} = 64k^2 \cdot 2 = \boxed{128k^2}$$