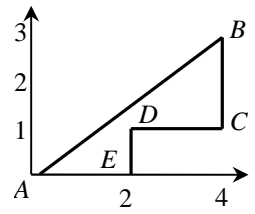


9.1. $2^7 = 128$.
 : 800. $8 \cdot 10 \cdot 10 = 800$.
 9). $1, 2, \dots, 9$

9.2. $x^3 + 5y = y^3 + 5x$.
 $x^3 - y^3 = 5(x - y)$. $x \neq y$, $(x - y)$
 $x^2 + xy + y^2 = 5$.
 $7 > 5$, 6
 $y = 2x$, $x^2 + 2x^2 + 4x^2 = 5$. $x = \sqrt{\frac{5}{7}}$ $y = 2\sqrt{\frac{5}{7}}$

9.3. $3^2 + 1^2 = 10$.
 $(-1, 3)$, $(2, 4)$, $D(3, 1)$.
 $\sqrt{10}$, $\angle BAC = 90^\circ$.
 B_1, C_1 .
 $3^2 + 4^2 = 5^2$. $ABCDE$ $\frac{3 \cdot 4}{2} - 2 = 4$, $5 + 2 + 2 + 1 + 2 = 12$.



9.4. 45° .
 $S_{CPQ} = S_{AMP} + S_{BNQ}$.
 $S_2 = S_{BNQ}$, $S = S_{CPQ}$.
 $\angle APM = \angle CPQ$ $\angle AMP = \angle PCQ = 45^\circ$.
 $S_1/S = (R \sin \alpha)^2 / R^2 = \sin^2 \alpha$. $S_2/S = \sin^2 S = \sin^2(90^\circ - r) = \cos^2 r$.
 $(S_1 + S_2)/S = \sin^2 \alpha + \cos^2 \alpha = 1$.

9.5. 37-
 8.5.