

Вариант 4

1) $0,007 \cdot 7 \cdot 400 = 34,300 = 34,3$

2) $\sqrt{81} < \sqrt{95} < \sqrt{100} \Rightarrow$ Ответ 2

3) $\sqrt{0,36} = 0,6$

$\sqrt{36} = 6$

$\sqrt{3,6} = ? \Rightarrow$ Ответ 3

4) $4x + 7 = 0$

$4x = -7$

$x = -1,75$ Ответ - 1,75

5) 413

6) $q = 68 : 17 = 4 \Rightarrow b_4 = 272 \cdot 4 = 1088$

7) $(a-4)^2 - 2a(5a-4) = a^2 - 8a + 16 - 10a^2 + 8a = -9a^2 + 16$

$a = -\frac{1}{3} \Rightarrow -9a^2 + 16 = -9(-\frac{1}{3})^2 + 16 = 1$

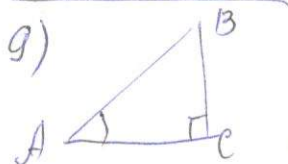
8) $18 - 5(x+3) > 1 - 7x$

$18 - 5x - 15 > 1 - 7x$

$-5x + 7x > -18 + 15 + 1$

$2x > -2$

$x > -1$ Ответ 3



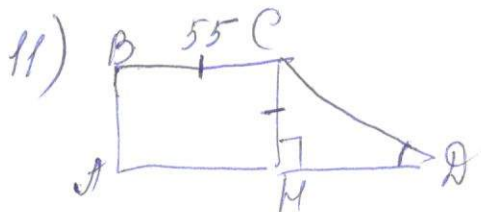
$\text{tg } A = 0,75 = \frac{3}{4}$

$\text{tg } A = \frac{BC}{AC} \quad \frac{3}{4} = \frac{BC}{4} \Rightarrow BC = 3$

10) Радиус $OB \perp AB \Rightarrow$ Рассмотрим $\triangle AOB, \angle B = 90^\circ \Rightarrow$
по т. Пифагора $AO^2 = OB^2 + AB^2$

$13^2 = OB^2 + 12^2$

$OB^2 = 169 - 144 = 25 \Rightarrow OB = 5$



$\text{tg } \alpha = \frac{CH}{HD}$

$\text{tg } \alpha = \frac{55}{HD} \Rightarrow \frac{1}{2} = \frac{55}{HD} \Rightarrow HD = 110$

$AD = AH + HD = 55 + 110 = 165$

12) $\text{tg } \alpha = 4$

13) 3