Вариант 111

1. $\dfrac{3}{200}$

2. $\dfrac{\pi n}{2}$, $n \in \mathbb{Z}$

3. $\dfrac{14}{9}$

4. $\left[-\dfrac{3}{5}; -\dfrac{1}{2}\right) \cup \left(-\dfrac{1}{3}; +\infty\right)$

5. 1

6. $\dfrac{4}{3}$, $x = \dfrac{1}{\log_2 3 - 1}$

7. 1

8. $x = \dfrac{5}{9}$, $y = \dfrac{1}{9}$

Вариант 112

1. $\dfrac{5}{164}$

2. $\dfrac{\pi}{4} + \pi n$, $n \in \mathbb{Z}$

3. $\dfrac{5}{4}$

4. $\left[-\dfrac{2}{3}; -\dfrac{1}{3}\right) \cup \left(-\dfrac{1}{4}; 1\right]$

5. 6

6. $\dfrac{1}{4}$, $x = \dfrac{\log_2 3 + 1}{1 - \log_2 3}$

7. $\dfrac{5 - \sqrt{15}}{2}$

8. $x = -\dfrac{1}{2}$, $y = -\dfrac{1}{12}$

Вариант 113

1. $-\dfrac{7}{288}$

2. $\dfrac{\pi n}{2}$, $n \in \mathbb{Z}$

3. $\dfrac{2}{9}$

4. $\left[\dfrac{1}{2}; \dfrac{2}{3}\right) \cup (1; +\infty)$

5. $\sqrt{3}$

6. $\dfrac{8}{7}$, $x = \dfrac{2}{1 - \log_2 5}$

7. $2 + \sqrt{7}$

8. $x = \dfrac{1}{6}$, $y = -\dfrac{1}{3}$

Вариант 114

1. $\dfrac{1}{228}$

2. $-\dfrac{\pi}{4} + \pi n$, $n \in \mathbb{Z}$

3. $\dfrac{3}{4}$

4. $[-2; -1) \cup \left(-\dfrac{1}{4}; \dfrac{1}{3}\right]$

5. $2\sqrt{3}$

6. $\dfrac{5}{9}$, $x = \dfrac{\log_2 5 + 1}{\log_2 5 - 1}$

7. $\dfrac{3 - \sqrt{3}}{2}$

8. $x = -\dfrac{1}{4}$, $y = \dfrac{1}{4}$