

Started on	lunedì, 3 febbraio 2025, 7:51 PM
State	Finished
Completed on	venerdì, 4 luglio 2025, 11:05 PM
Time taken	151 days 2 hours
Overdue	150 days 23 hours
Grade	0 out of 100

Question 1

Not answered

Marked out of 10

If not specified otherwise, fill in the blanks with **integers (possibly 0 or negative)**. A fraction should be **reduced** (for example, $\frac{1}{2}$ is accepted but not $\frac{2}{4}$), and if it is negative and the answer boxes (such as $\frac{\boxed{a}}{\boxed{b}}$) have ambiguity, the negative sign should be put on the numerator (for example $\frac{-1}{2}$ is accepted but $\frac{1}{-2}$ is not). $\log x = \log_e x$, not $\log_{10} x$.

Complete the formulae. $\cos\left(\frac{\pi}{6}\right) = \frac{\sqrt{\boxed{a}}}{\boxed{b}}$.

$\boxed{a}$: ✖ $\boxed{b}$: ✖

Question 2

Not answered

Marked out of 10

If not specified otherwise, fill in the blanks with **integers (possibly 0 or negative)**. A fraction should be **reduced** (for example, $\frac{1}{2}$ is accepted but not $\frac{2}{4}$), and if it is negative and the answer boxes (such as $\frac{\boxed{a}}{\boxed{b}}$) have ambiguity, the negative sign should be put on the numerator (for example $\frac{-1}{2}$ is accepted but $\frac{1}{-2}$ is not). $\log x = \log_e x$, not $\log_{10} x$.

Solve the following inequality. $x^2 + 6x + 5 > 0$.

The solution is $x < \boxed{a}$ or $\boxed{b} < x$.

$\boxed{a}$: ✖ $\boxed{b}$: ✖

Question 3

Not answered

Marked out of 10

If not specified otherwise, fill in the blanks with **integers (possibly 0 or negative)**. A fraction should be **reduced** (for example, $\frac{1}{2}$ is accepted but not $\frac{2}{4}$), and if it is negative and the answer boxes (such as $\frac{\boxed{a}}{\boxed{b}}$) have ambiguity, the negative sign should be put on the numerator (for example $\frac{-1}{2}$ is accepted but $\frac{1}{-2}$ is not). $\log x = \log_e x$, not $\log_{10} x$.

Evaluate the following. $\log_3 9 - \log_8 \frac{1}{2} = \frac{\boxed{a}}{\boxed{b}}$.

$\boxed{a}$: ✖ $\boxed{b}$: ✖

Question 4

Not answered

Marked out of 10

If not specified otherwise, fill in the blanks with **integers (possibly 0 or negative)**. A fraction should be **reduced** (for example, $\frac{1}{2}$ is accepted but not $\frac{2}{4}$), and if it is negative and the answer boxes (such as $\frac{\boxed{a}}{\boxed{b}}$) have ambiguity, the negative sign should be put on the numerator (for example $\frac{-1}{2}$ is accepted but $\frac{1}{-2}$ is not). $\log x = \log_e x$, not $\log_{10} x$.

Find the value $x = \frac{\boxed{a}}{\boxed{b}}$ satisfying $(e^x)^2 = e^3$.

$\boxed{a}$: ✖ $\boxed{b}$: ✖

Question 5

Not answered

Marked out of 10

If not specified otherwise, fill in the blanks with **integers (possibly 0 or negative)**. A fraction should be **reduced** (for example, $\frac{1}{2}$ is accepted but not $\frac{2}{4}$), and if it is negative and the answer boxes (such as $\frac{\boxed{a}}{\boxed{b}}$) have ambiguity, the negative sign should be put on the numerator (for example $\frac{-1}{2}$ is accepted but $\frac{1}{-2}$ is not). $\log x = \log_e x$, not $\log_{10} x$.

Find all values $x = \frac{\boxed{a}}{\boxed{b}}$ ($\boxed{a} < \boxed{b}$) satisfying $(x^2 + 3)^{\frac{1}{2}} = 2$.

$\boxed{a}$: ✖ $\boxed{b}$: ✖

Question 6

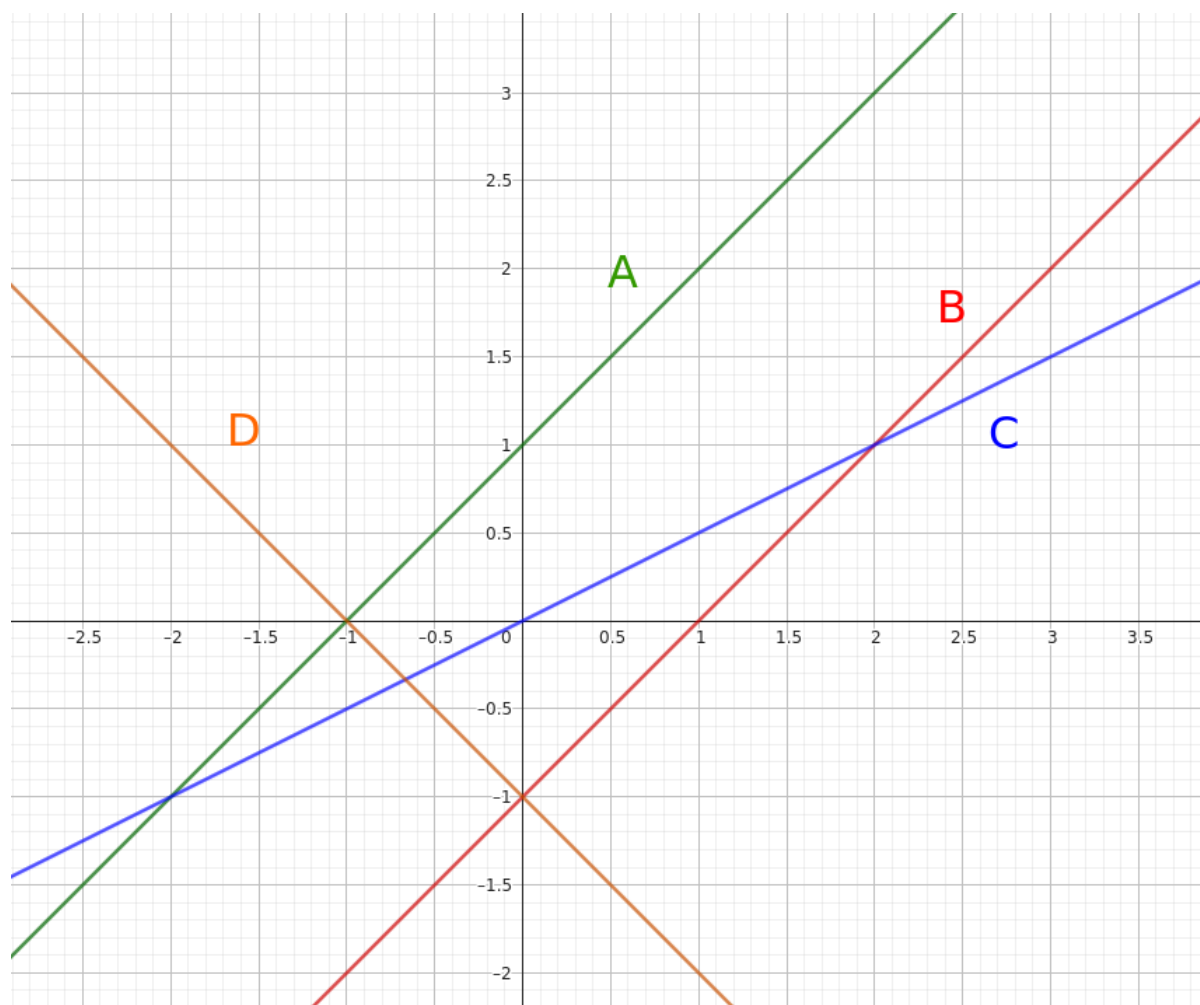
Not answered

Marked out of 10

Choose the graph of $f(x) = x + 1$.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

The correct answer is: A



Question 7

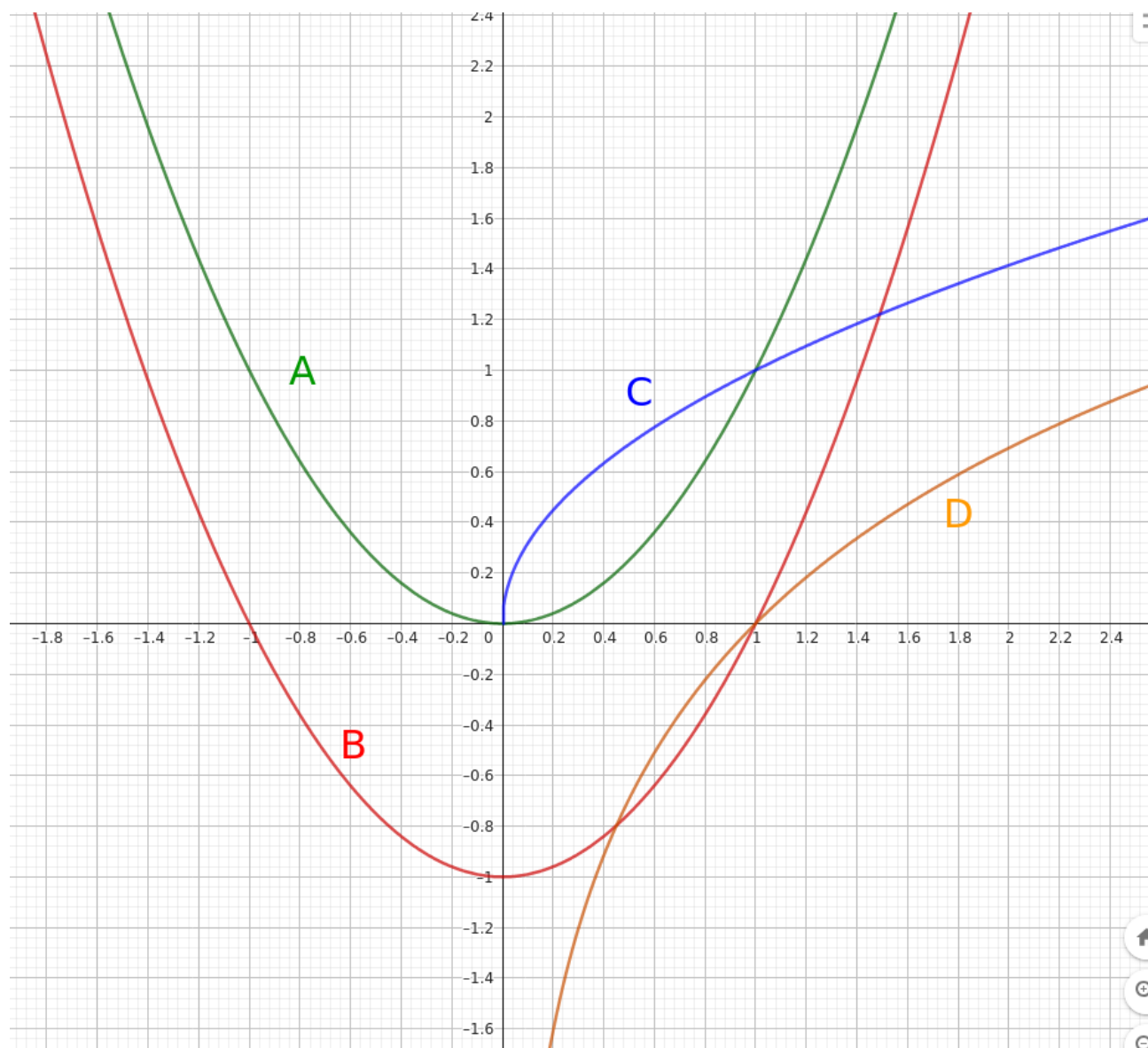
Not answered

Marked out of 10

Choose the graph of $f(x) = \sqrt{x}$.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

The correct answer is: C



Question 8

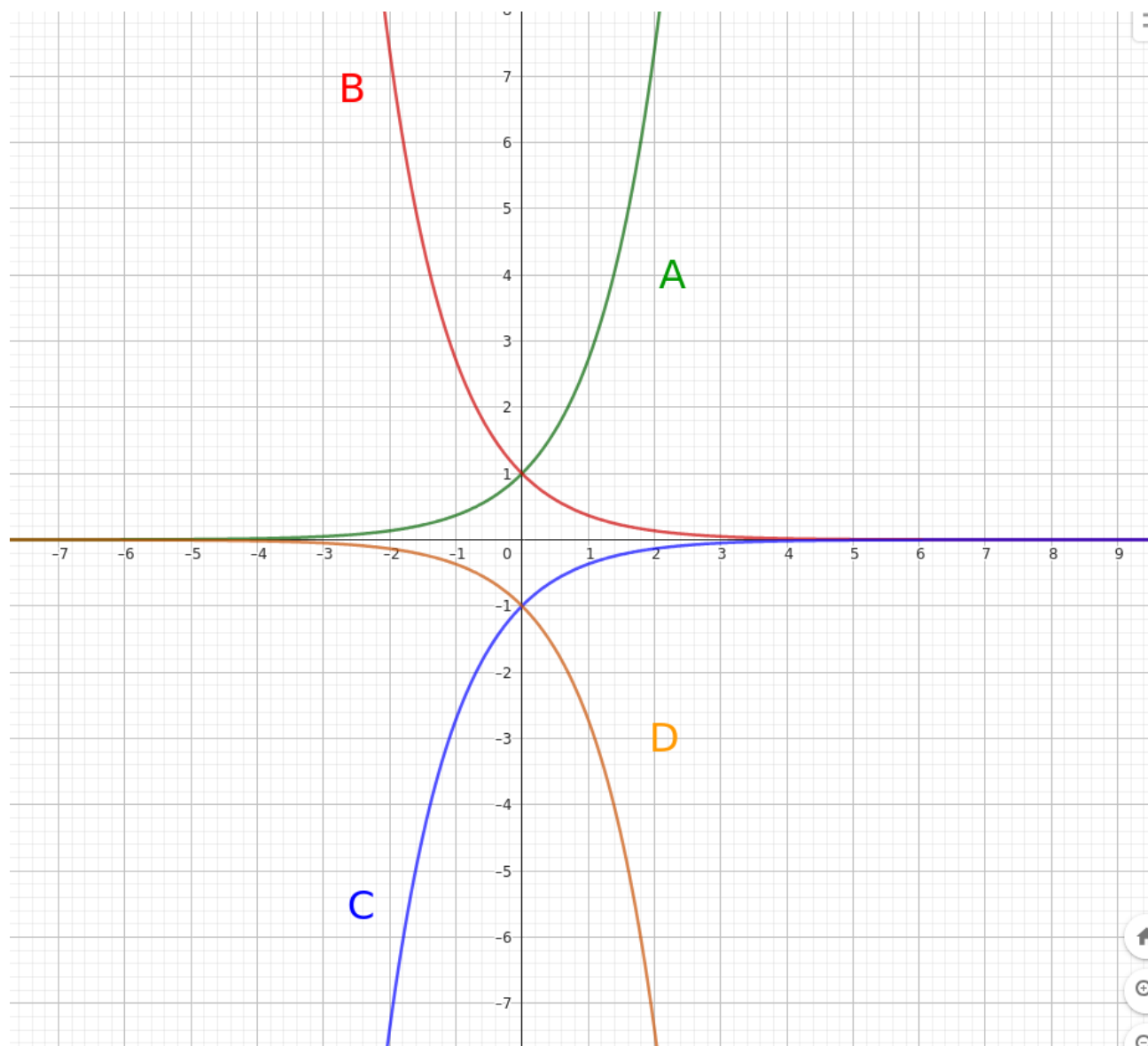
Not answered

Marked out of 10

Choose the graph of $f(x) = e^{-x}$.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

The correct answer is: B



Question 9

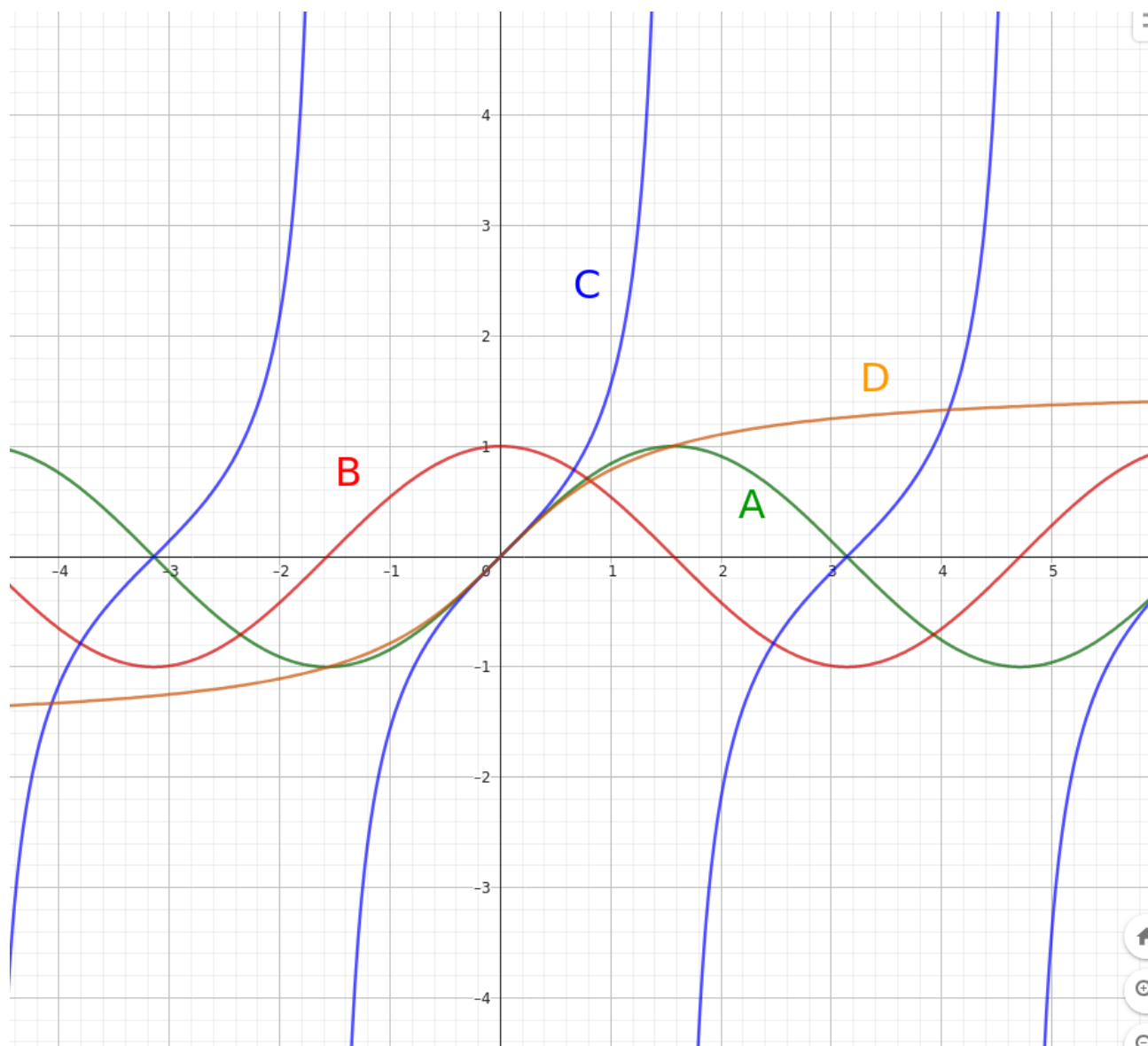
Not answered

Marked out of 10

Choose the graph of $f(x) = \sin x$.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

The correct answer is: A



Question 10

Not answered

Marked out of 10

Choose the graph of $f(x) = \log x$.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

The correct answer is: D

