

Question 1:

What is $7 + 5$?

Answer:

12

Question 2:

Define a prime number.

Answer:

A prime number is an integer with exactly two divisors: 1 and itself.

Question 3:

Solve the equation $3x - 7 = 11$.

Answer:

$3x = 18 \rightarrow x = 6$.

Question 4:

What is the derivative of $f(x) = x^2 - 3x + 1$?

Answer:

$f'(x) = 2x - 3$.

Question 5:

State one real-life application of matrices.

Answer:

Matrices are used in 3D graphics to transform objects.