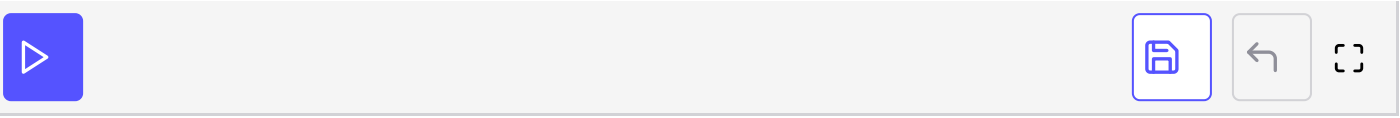
Solution Review: Compute an Expression Using Maths

In this review, the solution of the challenge 'Compute an expression using maths' from the previous lesson is provided.

We'll cover the following

Solution

```
class HelloWorld {
    public static void main( String args[] ) {
       double x = 55.0;
       double y = 18.0;
       double z = 51.0;
       double answer;
       double sum = Math.pow(x, 2) + Math.pow(y, 2);
       double sub = sum - Math.abs(z);
       answer = Math.cbrt(sub);
       System.out.println(answer);
    }
}
```



Understanding the Code

Line 7

- The first step is to create a **double** type variable called `sum`.
- This variable stores the *addition result* of **two** expressions.
- The first of these expressions is the **square of x** calculated using the `pow()` method.
- The second is the same but with variable **y**.
- The sum of the two expressions is assigned to the variable `sum`.

Line 8

- The first step is to create a **double** type variable called `sub`.

- This variable stores the *subtraction result* of **two** expressions.
- The variable from which the expression is to be subtracted is the `sum`.
- The second is the **absolute** value of **z** calculated using the method `abs()`.
- This expression is **subtracted** from `sum`, and the answer is stored in `sub`.

Line 9

- The **cube root** of the variable `sub` is calculated in the final step.
- This is done using the `cbrt()` method.
- The final result is stored in the `answer` variable.

In the next lesson, we will solve the challenge related to logical expression.