Question q:
Find the positive difference between the solutions for $|x + 3| = 6$."

student

MathSensei

Best Setting
- Python Generator
- Wolfram Alpha
- Solution Generator

$c_1 = [q]$

Python Generator

o_1

Generated Code:
```
from sympy import
# Define the equation
# Solve the equation
# sol = solve(eq, x)
# Find the positive difference between the solutions
# diff = abs(sol[0] - sol[1])
eq = Abs(x + 3) - 6
print("Positive difference between the solutions:", diff)
```
Code Output:
```
Error message: Name 'x' is not defined
```

$c_2 = [c_1; o_1]$

Wolfram Alpha

o_2

Generated Query:
solve |x + 3| = 6

Answer:
Yes, the solution from the Wolfram alpha API for
"solve |x + 3| = 6" is: x = -9 and x = 3 (real solutions)
or x = -3 + 6 e^(i n) and n element R (complex solutions)

$c_3 = [c_2; o_2]$

Solution Generator

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- From the Wolfram Alpha response, we find that the solutions are $x=-9$ and $x=3$.
- The positive difference between the solutions is $3-(-9)=12$.
- **Therefore, the answer is $\boxed{12}$.**