

Quiz 2

What is the exact value of $|53 - 17\pi| + |10\pi - 31| - |84 - 27\pi|$?

Solution: By the definition of absolute value, $|53 - 17\pi| + |10\pi - 31| - |84 - 27\pi| = 17\pi - 53 + 10\pi - 31 - (27\pi - 84) = 17\pi + 10\pi - 27\pi - 53 - 31 + 84 = 0$.