

Exercise 11

For the following exercises, points $P(1.5, 0)$ and $Q(\phi, y)$ are on the graph of the function $f(\phi) = \cos(\pi\phi)$.

Use the values in the right column of the table in the preceding exercise to guess the value of the slope of the tangent line to f at $\phi = 1.5$.

[TYPO: Replace φ with ϕ .]

Solution

The slope of the tangent line to f at $\phi = 1.5$ is π .