9. [–/1 Points] DETAILS MCKTRIG8 3.2.077.

Evaluate the following expression when x is $\pi/6$. Use exact values.

$$6 \cos\left(2x + \frac{\pi}{3}\right)$$

Answer

6cos(2x+π/3) , if x = π/6
=5.996 ≈ 6

Explanation

6cos(2x+π/3) , if x = π/6

=6cos(2(π/6) +π/3)
=6cos(2π/6 + π/3)
=6cos(π/3 + π/3)
=6cos(2π/3)
=6cos(2.09)
=6*0.99933197362
=5.996 ≈ 6