

Chapter 12 / **Example 9**

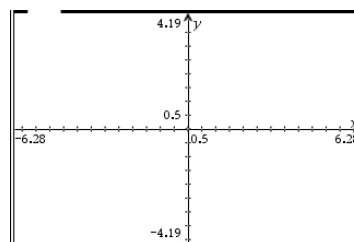
Sketching trigonometric graphs

Sketch the graph of $y = 3\cos 2x$, $0 \leq x \leq 2\pi$.

Open a new document and add a Graphs page.

Press **menu** 4:Window/Zoom | 8:Zoom – Trig.

These are the default axes for displaying trigonometric graphs.



To change the axes to the domain $0 \leq x \leq 2\pi$ press

menu 4:Window/Zoom | 1:Window Settings

Change the value of XMin to 0 and press **enter**.

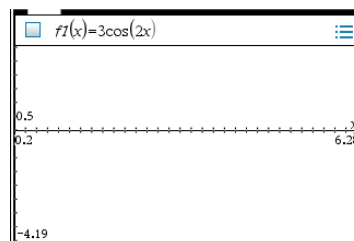
($2\pi \approx 6.28$)

Press **tab** to open the entry line.

The entry line is displayed at the top of the work area.

The default graph type is function, so ' $f1(x)=$ ' is displayed.

Type $3\cos 2x$ and press **enter**.



To enter cos press **trig** and select cos.

sin	cos	tan	csc	sec	cot
sin ⁻¹	cos ⁻¹	tan ⁻¹	csc ⁻¹	sec ⁻¹	cot ⁻¹

The GDC displays the graph for the domain $0 \leq x \leq 2\pi$.

