

Worksheet 2

Sketching trigonometric graphs

Draw each of the following graphs on the given domain. Indicate the coordinates of all x - and y -intercepts, turning points, start and end points, and the equations of all the asymptotes if they exist.

1. $g(x) = 2 \cos x$ where $x \in [-360^\circ; 360^\circ]$
2. $f(x) = \cos 2x$ where $x \in [-360^\circ; 360^\circ]$
3. $h(x) = -2 \cos 2x$ where $x \in [-360^\circ; 360^\circ]$
4. $p(x) = 2 \cos 2x - 1$ where $x \in [-360^\circ; 360^\circ]$
5. $m(x) = 2 \tan x$ where $x \in [-360^\circ; 360^\circ]$
6. $g(x) = \tan 2x$ where $x \in [-180^\circ; 180^\circ]$
7. $h(x) = -2 \tan 2x$ where $x \in [-180^\circ; 180^\circ]$
8. $f(x) = -\tan 2x + 1$ where $x \in [-180^\circ; 180^\circ]$
9. $f(x) = \cos(x - 30^\circ) + 2$ where $x \in [-360^\circ; 360^\circ]$
10. $g(x) = -2 \sin 3x$ where $x \in [0^\circ; 360^\circ]$
11. $h(x) = \tan(2x - 45^\circ)$ where $x \in [-180^\circ; 180^\circ]$
12. $m(x) = 2 \sin(x + 30^\circ) + 1$ where $x \in [-360^\circ; 360^\circ]$