



7a) Amplitude 4
Period 360°

$$y = 4 \sin x$$

11a) $y = 2.5 \cos x$
all x-intercepts are invariant
 $(90^\circ, 0), (270^\circ, 0), \dots$
In general,
 $(90^\circ + 180^\circ n, 0)$

10a) $y = 5 \sin x$
(Vertical Stretch factor 5).
x-intercepts are invariant points.
 $(0, 0), (180^\circ, 0), (360^\circ, 0), \dots$
etc. in general $(180^\circ n, 0)$.

note: for #10, 11 it does not specify for only one cycle so you must include all possible x-intercepts as invariant points.