

Trig Functions

1. Solve for x : $\cos(x) = .9$.
2. Write a formula for a sine function that has an amplitude of 3, a period of 4 and a value of 0 at $t = 0$.
3. What is the period of $\sin(2x + 1)$?
4. Make rough sketches of the following functions. **Try these without a calculator first! These aren't easy. But they're fun.**
 - (a) $2^{\sin(x)}$
 - (b) $\sin(2^x)$
 - (c) $(\sin(x))^2$
 - (d) $\sin(x^2)$
 - (e) $x^2 \sin(x)$