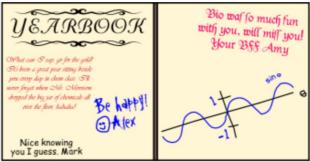
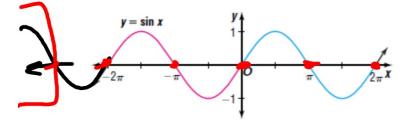


Activity: Spaghetti graphs--Gallery walk triangle puzzle Graphing calculators





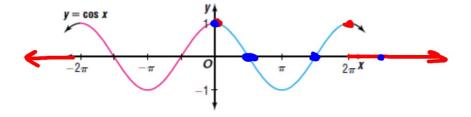


p. 360

Properties of the Graph of $y = \sin x$

 The period is 2π.
 The domain is the set of real numbers.
 The range is the set of real numbers between -1 and 1, inclusive.
 The x-intercepts are located at πn, where n is an integer.
 The y-intercept is 0.
 The maximum values are y = 1 and occur when x = π/2 + 2πn, where n is an integer.
 The minimum values are y = -1 and occur when x = 3π/2 + 2πn, where n is an integer. where n is an integer.

http://ck022.k12.sd.us/images/SineCurve.MOV

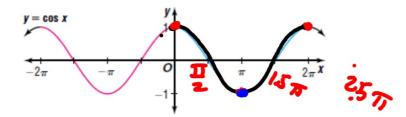


p. 362

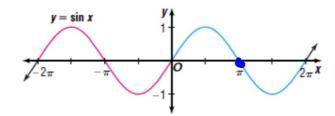
Properties of the Graph of $y = \cos x$

- 1. The period is 2π .

- The domain is the set of real numbers.
 The range is the set of real numbers between -1 and 1, inclusive.
 The *x*-intercepts are located at π/2 + πn, where n is an integer.
 The *y*-intercept is 1.
- 6. The maximum values are y = 1 and occur when $x = \pi n$, where n is an even integer.
- 7. The minimum values are y = -1 and occur when $x = \pi n$, where n is an odd integer.





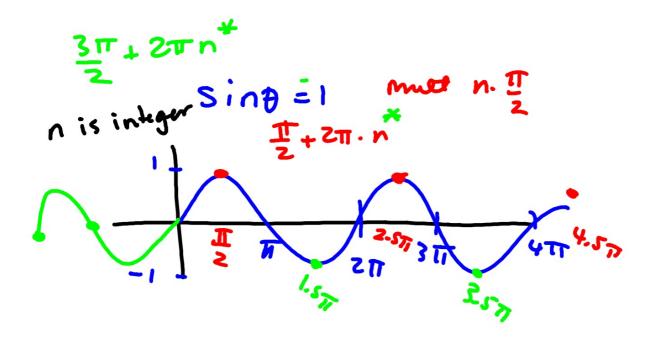


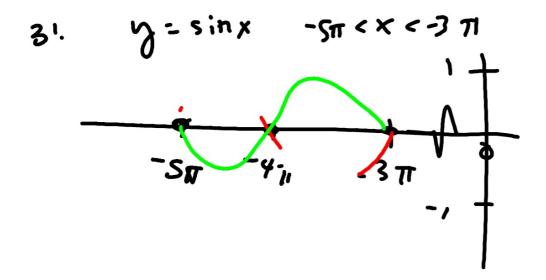
Determine whether the graph represents $y = \sin x$, $y = \cos x$, or neither.

Does it have a range -1<y<1?

Does it have appropriate period? (360 or 2pi)

Does it have appropriate x-intercepts?





25.
$$SinTT + COST$$

$$0 \quad L-1 = -1$$

$$Sin \leftrightarrow > CS$$
26. $Sin2TI - COS2TI$

$$0 \quad -1 = -1$$