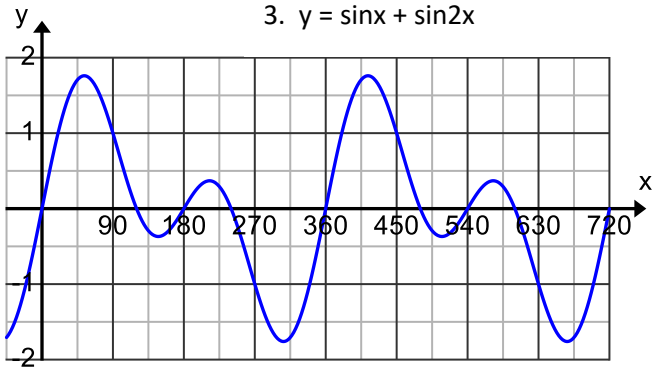
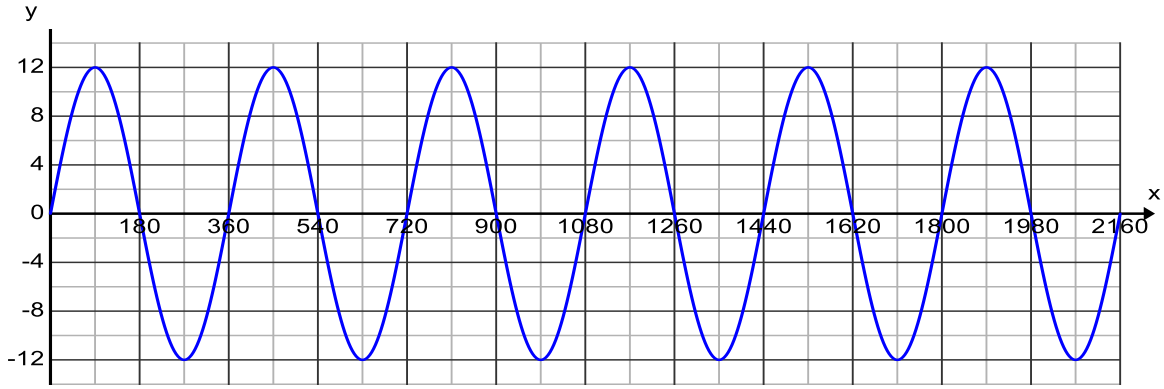
MCR3UI

Unit 6 lesson 2 homework handout Graphing Trig Functions solutions part 2.

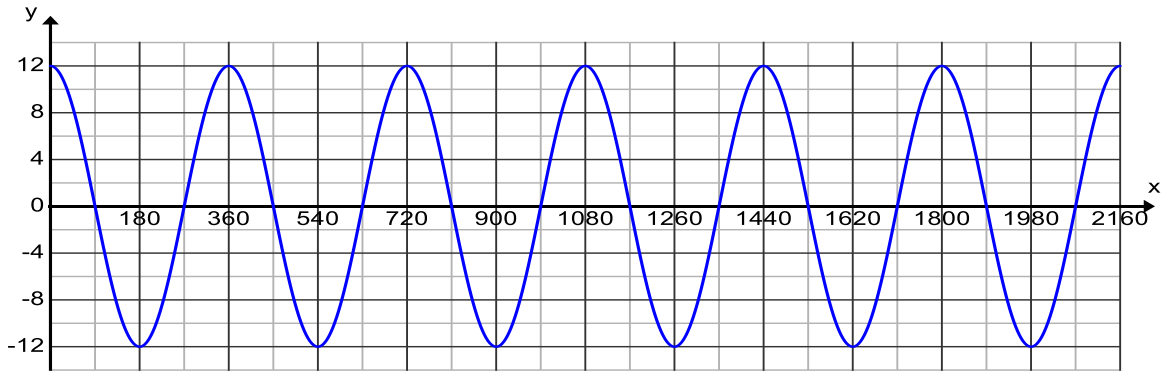
3. y = sinx + sin2x



4(a) y = 12 sinx 72 hours /12 hours per cycle = 6 cycles Graph begins at 3:00
You would have a cosine graph if beginning at 12:00



4(b) y = 12 cosx Graph begins at 3:00 You would have a sine graph if beginning at 12:00



4 (c) 72 hours /12 hours per cycle = 6 cycles

(d) (72 hours x 60 minutes/hour) /(60 minutes per cycle) = 72 cylces

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5(a) Y-int set x = 0°

Y = sin0° +cos0°

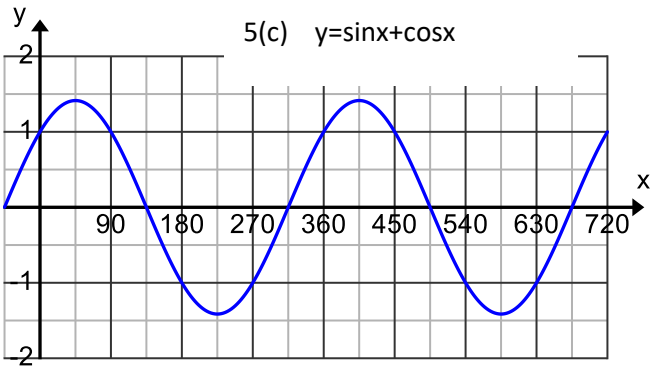
Y=1

(b) x-int set y = 0

sinx+cosx = 0

sinx = -cosx (Related acute angle 45 ˚ in quadrants where cosine and sine are opposite signs)

x = 135˚ or 315˚ (in the first cycle.)



5(c) y=sinx+cosx