PC 12 Session 15

February 28, 2022 1:03 PM

Pre-Calculus 12 Session 15 Tuesday, March 1, 2022

- Last Day's Homework:
 - Textbook Practice: Section 4.4: pages 211-213. Practise 1a), c), 2, 3a), c), 4a), c), 5a), c), e), 6a), c), e), 7 (all), 9, 13, 16. The Chapter 4 Review (pages 215 to 217), the
 - <u>Shapter 4 Practice Test</u> (pages 218 and 219) and the Chapter 4 Review package I gave out last day.
 - Readings: Nothing new.
 - Hand-in Assignments and other things: The <u>Chapter 4 Hand-in Assignment</u> is due in today. The <u>Chapter 4 Test</u> will be on Thursday, March 3.
- A look at the <u>Chapter 4 Hand-in Assignment</u> Answers
 - Section 5.1: Graphing Sine and Cosine Functions
 - Section 5.2: Transformations of Sinusoidal Functions
 - Section 5.3: The Tangent Function
 - Section 5.4: Equations and Graphs of Trig Functions (a.k.a. solving Trig Equations and Applications)
 - Section 6.1: Reciprocal, Quotient and Pythagorean Identities

Homework: This depends on how far we get today.

Readings: Nothing new.

Practice from Textbook to try:

<u>Section 5.1</u>: pages 233 to 237, Practise 1, 2, 3, 4a), d), 5b), d), 6, 7a), c), 8a), c), 9a), c), 10, 11a), c), 14, 18. <u>Section 5.2</u>: pages 250-255, Practise 2 to 7, 10, 14, 15a), c), 16a), c). <u>Section 5.3</u>: pages 262 to 265, Practise 1a), c), 2a), c), e), 3, 7, 8 <u>Section 5.4</u>: pages 275-279, Practise 1, 2, 3, 4a), c), 5a), c), 6, 8b), 9, 10, 14, 16, 19. The <u>Chapter 5 Review</u> (pages 282-285), the <u>Chapter 5 Practice Test</u> (pages 286 and 287). <u>Section 6.1</u>: pages 296-298, Practise 1a), c), 3, 4, 5, 6, 10, 11, 14, 15, 16.

Hand-in Assignments: You should start working on the <u>Chapter 5 Hand-in Assignment</u>. That assignment will likely be due on Thursday, March 10. The <u>Chapter 4 Test</u> will be on Thursday, March 3 (unless you convince me to move it to Tuesday, March 8).

Last class BY Spring Break is Mursday, March 10.

Section 5.1 deals with the basic graphs of y= sin 2 and y= cosz

y=sinx y= cos(x-J) identical, Sinsvill functions with rational periods for y = asin[b(x-c)]+d or g=a cos[b(x-c)]+d The period equals - p= 2tt or 360° The value bis usually an integer or a rational $\begin{aligned} \text{number} \left(\overline{i} \neq \alpha \text{ dec.inal or } \alpha \text{ fraction}\right) & \text{retiond}, \\ y &= 2 \sin \left(\frac{2}{3}\left(x - \frac{1}{3}\right)\right) + 4 & \text{frid} = \frac{360^\circ}{2/3} = \frac{540^\circ}{3} \\ \text{period} = \frac{211}{3/3} = \frac{317}{517} & \text{frid} = \frac{3180}{2} \\ \text{retord} = \frac{310}{2/3} = \frac{317}{2} \end{aligned}$ ZHY3-- 317 When working in radians, the prived can be a rational number if bis a fraction of IT or a multiple of IT y=3 cos[€ (x-2)] - 1 b- 217 period: 217 = 211 × 3 -3 For $y = a \cos\left[\frac{2\pi}{p}(x-c)\right] + d$ or $y = a \sin\left[\frac{2\pi}{p}(x-c)\right] + d$ p = period. y= 3 sin (2 tr) parithe 9 units.