PC 12 Session 19

Sunday, March 27, 2022 5:00 PM

Pre-Calculus 12 Session 19 Tuesday, March 29, 2022

- 1. Last Day's Homework:
 - Textbook Practice: <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.
 - Readings: Section 6.1 (pages 290 to 296), Section 6.2 (pages 300 to 305), Section 6.3 (pages 309 to 313), Section 6.4 (pages 316 to 320).
 - Hand-in Assignments and other things: The <u>Chapter 5 Hand-in Assignment</u> is due today.
- 2. A look and the Unit 5 Hand-in Assignment
- 3. A look back at Section 6.1: Reciprocal, Quotient and Pythagorean Identities
- 4. Section 6.2: Sum, Difference and Double Angle Identities
- 5. Section 6.3: Proving Identities
- 6. Section 6.4: Solving Trigonometric Equations Using Identities

Homework: This depends on how far we get today.

Readings: Section 7.1 (pages 334 to 342), Section 7.2 (pages 346 to 354), Section 7.3 (pages 358 to 363.

Practice from Textbook to try:

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. (if you haven't already done so) <u>Section 6.2</u>: pages 305-308, Practise 1a), d), e), 2a), c), 4a), c), e), 8a), c), e), 9, 10, 11a), b), 16, 17, 19a), 20a), c). <u>Section 6.3</u>: pages 314-s315, Practise 1a), b), 2b), d), 3a), c), 5, 7, 8, 10b), c) 11a), c), 12a), 15, 18.

Section 6.4: pages 320-321, Practise 1b), c), 2b), c), 3a), b), c), 4, 5, 6, 10, 14, 17.

<u>Hand-in Assignments</u>: You should be working on the <u>Chapter 6 Hand-in Assignment</u>. That assignment will possibly be due on Tuesday, April 5.

The Chapter 5 Test will be next day.

The <u>Chapter 6 Test</u> will either be on Thursday, April 7, or (more likely) Tuesday, April 12.

A look back at Section 6.1 -> Recipical, Quotient and Fymogram identifie

and fymogram identifie Section 6.2". Sun, Difference and Auble - Angle Mentities. Sum identities A+B $Sin(\alpha+B) = sin \alpha \cos B + \cos \alpha \sin B$ sis (a-B) = sina cos B - cos a sin B cos(a+B) = cos a cos B - sind smB (os(a-B) = Losa CosB + SinasmB $fan(\alpha + \beta) = \frac{tan \alpha + tan \beta}{1 - tan \alpha tan \beta}$ tan (a-B) = tan a - tan B It tan a tan B We can use these identities to detarmine the exact values. of the sine, covine & tangant of angles other than our special angles' & the grad sontal angles. 30°, 45, 60 15 7, 15) QI 0°,90°, 100,270°, .t. 0, E, T, 35, Za 0, 65, 125, 185, 245 12, 12, 12, 12, 12 QI 120°, 135°, 150° ZM 3M YM

Daily Outlines Page 3

Double angle ident ties Sin (d +B) = Sin a cos B + Bosa sin B if < = 3 = 0 $\frac{\sin(2\theta) = \sin\theta\cos\theta + (\cos\theta)}{(\sin2\theta = 2\sin\theta\cos\theta)}$ > ~ (50° = s ~ (2×30°) = 2 m 30° cos 30° $= 2 \left(\frac{1}{2} \right) = \frac{7/3}{2 \times 2} = \frac{7/3}{2 \times 2} = \frac{7/3}{2}$ COS(Q+B)= COSQCOSB-SmasinB :F x=B=0 (03(20)= cos0 cos6 - sin Osino $\omega_5 2\theta = \cos^2 \theta - \sin^2 \theta$ sin20+ cos20=1 = |- sín20 - sín20 Cos20=(-5m20) 5m20-1-00520 (Cos20 = [1-2sin20]) Cos20= Cos20- (1-cos20) 5 2cos20-15 tom 20 = tom 0 + tom 0 I-tom 0 tom 0 - Ztom 0 I-tom 0 tom 0 - I-tom 0