

Warm - Up

Simplify $\cos^2 6x - \sin^2 6x$

to a trigonometric function having a single angle.

$$\cos 6x \cos 6x - \sin 6x \sin 6x$$

$$\cos(6x + 6x)$$

$$\cos 12x$$

Agenda:

Warm-Up

Look at Grades

Go over HW

Get in groups and review verifying trig. Identities

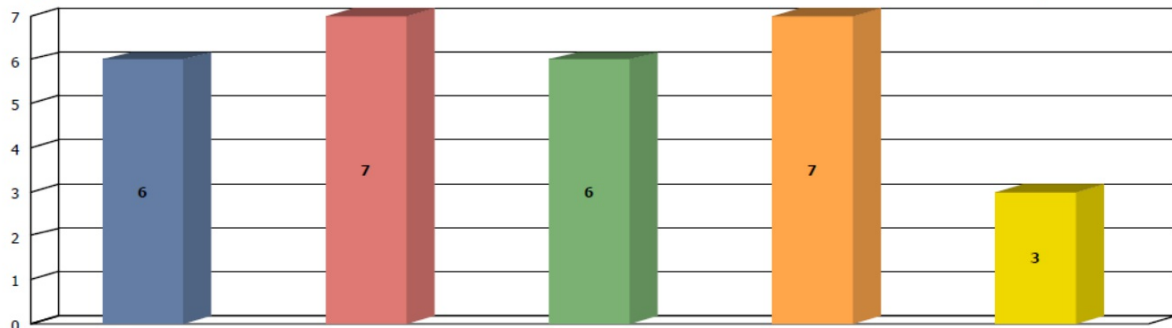
Grade Sheets

Exit Card

HW - Review Packet # 1 - 22, 23 - 40

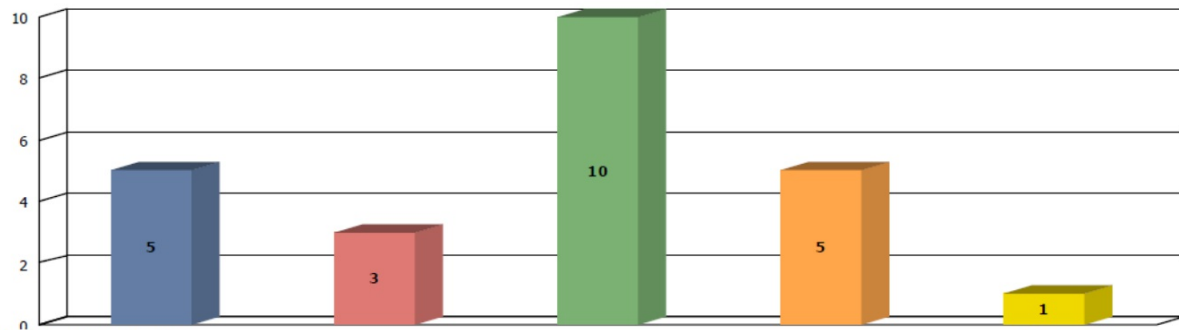
Period 01(Y): HON PRECALC A

Avg. 76.55%



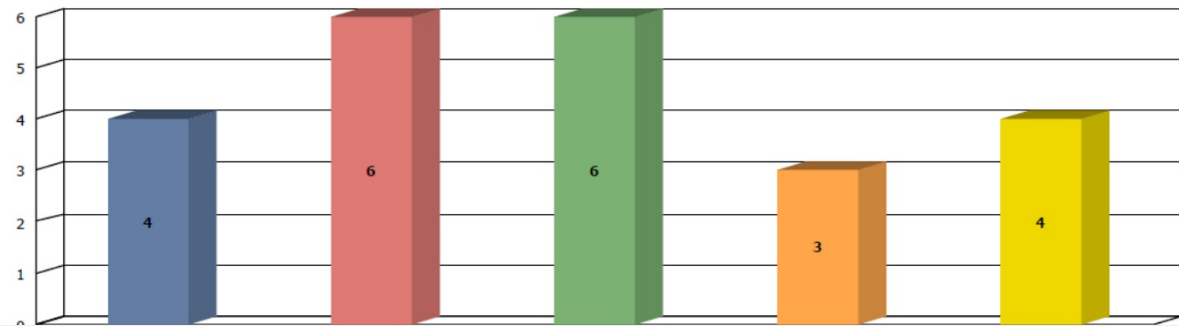
Period 05(Y): HON PRECALC A

Avg. 77.31%



Period 06(Y): HON PRECALC A

Avg. 74.79%



HW Questions

① $\sec \frac{5\pi}{12}$

$$\sec \frac{5\pi}{6} = \pm \sqrt{\frac{1 + \cos \frac{5\pi}{6}}{2}}$$

$$= \pm \sqrt{\frac{1 + (-\frac{\sqrt{3}}{2})}{2}} = \pm \sqrt{\frac{2 - \sqrt{3}}{2} \cdot \frac{1}{2}}$$

$$= \pm \sqrt{\frac{2 - \sqrt{3}}{4}} = \pm \frac{\sqrt{2 - \sqrt{3}}}{2}$$

$$= \frac{2}{\sqrt{2 - \sqrt{3}}}$$



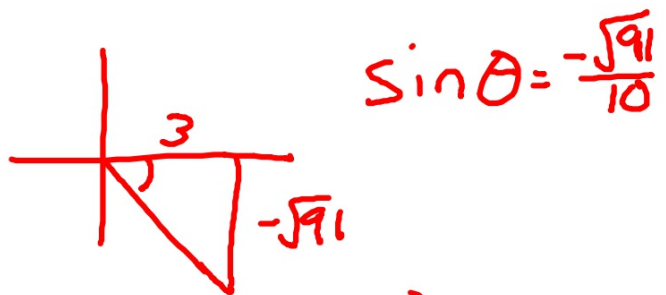
$$26 \cot = -\frac{3\sqrt{91}}{91} = \frac{-3}{\sqrt{91}}$$

$$\sin \frac{\theta}{2}$$

$$\pm \sqrt{\frac{1 - \frac{3}{10}}{2}}$$

$$\pm \sqrt{\frac{\frac{7}{10}}{2}}$$

$$\pm \sqrt{\frac{7}{20}}$$



$$\sin \theta = -\frac{\sqrt{91}}{10}$$

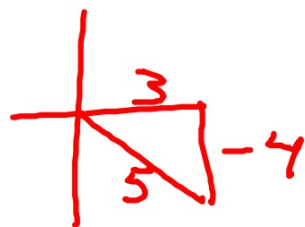
$$3^2 + (-\sqrt{91})^2 = c^2$$

$$9 + 91 = c^2$$

$$100 = c^2 \quad c = 10$$

Exit Card

$\sin \theta = -\frac{4}{5}$ Find $\cos 2\theta$



$$\cos^2 \theta - \sin^2 \theta$$

$$\left(\frac{3}{5}\right)^2 - \left(-\frac{4}{5}\right)^2$$

$$\frac{9}{25} - \frac{16}{25} = \left(-\frac{7}{25}\right)$$

Exit Card

