

Trig Homework 2
due Friday, June 27th

- 5.2, page 416, even numbers # 4-22 – only part (a) in all of them; #28, 30, 50
- 5.3 page 429 # 2, 8, 12 (do not use a calculator to draw the function), 14

1. Place in the increasing order

$$\sin 1, \sin 2, \sin 3, \sin 4, \sin 5, \sin 6$$

Do not use a calculator. Note that the angles are measured in radians, not degrees.

2. Is the product

$$\cos 1 \cos 2 \cos 3 \cos 4 \cos 5$$

positive or negative?

3. Find the largest and the smallest value of

$$2 - 5 \sin x$$

4. Without a calculator compare the numbers

$$\sin 1 \text{ and } \frac{\sqrt{3}}{2}.$$

5. Check the identity

$$\frac{1 - 2 \cos^2 t + \cos^4 t}{1 - 2 \sin^2 t + \sin^4 t} = \tan^4 t$$