

Assignment #8-4

Secondary 3 Honors

PreCalculus Book: Pg. 305 3, 6, 7, 15, 22, 26, 41, 42, 48(no calculator), 53(no calculator)

Pg. 316 7, 17, 18

Carnegie Book: Pg. 487 2, 3 Pg. 488-489 2, 3 Pg. 505 2

Additional Problems:

1. Graph $y = 3\tan\left(x - \frac{\pi}{4}\right)$

2. If $\cot\theta = -2.563$ find θ where $0^\circ \leq \theta \leq 360^\circ$

3. Without using a calculator, find:

a. $\cos\left(\frac{\pi}{2}\right)$

b. $\csc\left(\frac{3\pi}{4}\right)$

c. $\tan\left(\frac{5\pi}{2}\right)$

d. $\cos\left(\frac{11\pi}{6}\right)$

4. Find 2 angles θ where $0 \leq \theta \leq 2\pi$ where $\sin\theta = -\frac{\sqrt{3}}{2}$.

5. Find the reference angle for each of the following:

a. 375°

b. 273°

c. 2.632

d. $-\frac{4\pi}{3}$

6. Solve the equation for x: $\ln(x) - \ln(x + 2) = 0$

7. Solve the equation for x: $4^{x-2} + 6 = 22$