

King Fahd University of Petroleum and Minerals
Prep-Year Math Program
Math 002 - Term 142
Recitation (5.3)

Question 1:

(a): Find the exact value of $\cos 44^\circ + \cos 136^\circ$

(b): Find the exact value of $\cot(675^\circ) - \cos(240^\circ)$

Answer: (a): 0 **(b):** $-\frac{1}{2}$

Question 2: Find the measure of the reference angle θ' for the given angle θ

(i): -570°

(ii): $220^\circ 25' 45''$

Answer: (i): 30° **(ii):** $40^\circ 25' 45''$

Question 3: If $\tan 40^\circ = 0.84$, then $3 \tan 140^\circ + 5 \cot 410^\circ =$

(A) 1.68

(B) 6.72

(C) 1.84

(D) -6.72

(E) -1.68

Answer: (A): 1.68

Question 4: The exact value of $\sin(-1860^\circ)$ is:

(A) $-\frac{1}{2}$

(B) $\frac{\sqrt{3}}{2}$

(C) $\frac{\sqrt{2}}{2}$

(D) $-\frac{\sqrt{3}}{2}$

(E) $\frac{1}{2}$

Answer: (D): $-\frac{\sqrt{3}}{2}$