2a)
$\sin\theta = -\frac{5}{13}$
$\cos\theta = \frac{12}{13}$
$\tan\theta = -\frac{5}{12}$
$\csc\theta = -\frac{13}{5}$
$\sec\theta = \frac{13}{12}$
$\cot\theta = -\frac{12}{5}$

b)
$\sin\theta = \frac{1}{\sqrt{2}}$
$\cos\theta = -\frac{1}{\sqrt{2}}$
$\tan\theta = -1$
$\csc\theta = \sqrt{2}$
$\sec\theta = -\sqrt{2}$
$\cot\theta = -1$

4a)
$\sin\theta = \frac{1}{\sqrt{10}}$
$\cos\theta = \frac{3}{\sqrt{10}}$
$\tan\theta = \frac{1}{3}$
$\csc\theta = \sqrt{10}$
$\sec\theta = \frac{\sqrt{10}}{3}$
$\cot\theta = 3$

b)
$\sin\theta = -\frac{2}{\sqrt{5}}$
$\cos\theta = \frac{1}{\sqrt{5}}$
$\tan\theta = -2$
$\csc\theta = \frac{\sqrt{5}}{-2}$
$\sec\theta = \sqrt{5}$
$\cot\theta = -\frac{1}{2}$

6a)
$\sin\theta = \frac{15}{17}$
$\cos\theta = \frac{8}{17}$
$\tan\theta = \frac{15}{8}$
$\csc\theta = \frac{17}{15}$
$\sec\theta = \frac{17}{8}$
$\cot\theta = \frac{8}{15}$

b)
$\sin\theta = -\frac{40}{41}$
$\cos\theta = -\frac{9}{41}$
$\tan\theta = \frac{40}{9}$
$\csc\theta = -\frac{41}{40}$
$\sec\theta = -\frac{41}{9}$
$\cot\theta = \frac{9}{40}$

8a)
$\sin\theta = -\frac{2}{\sqrt{29}}$
$\cos\theta = -\frac{5}{\sqrt{29}}$
$\tan\theta = \frac{2}{5}$
$\csc\theta = -\frac{\sqrt{29}}{2}$
$\sec\theta = -\frac{\sqrt{29}}{5}$
$\cot\theta = \frac{5}{2}$

b)
$\sin\theta = \frac{2}{\sqrt{5}}$
$\cos\theta = -\frac{1}{\sqrt{3}}$
$\tan\theta = -2$
$\csc\theta = \frac{\sqrt{3}}{2}$
$\sec\theta = -\sqrt{5}$
$\cot\theta = -\frac{1}{2}$

10a) I
10b) IV

12a) IV
12b) III

14)
$\sin\theta = -\frac{3}{5}$
$\cos\theta = -\frac{4}{5}$
$\tan\theta = \frac{3}{4}$
$\csc\theta = -\frac{5}{3}$
$\sec\theta = -\frac{5}{4}$
$\cot\theta = \frac{4}{3}$

16)
$\sin\theta = -\frac{15}{17}$
$\cos\theta = \frac{8}{17}$
$\tan\theta = -\frac{15}{8}$
$\csc\theta = -\frac{17}{15}$
$\sec\theta = \frac{17}{8}$
$\cot\theta = -\frac{15}{8}$

18)
$\sin\theta = \frac{1}{4}$
$\cos\theta = -\frac{\sqrt{15}}{4}$
$\tan\theta = -\frac{1}{\sqrt{15}}$
$\csc\theta = 4$
$\sec\theta = -\frac{4}{\sqrt{15}}$
$\cot\theta = -\sqrt{15}$

20)
$\sin t = 0$
$\cos\theta = -1$
$\tan\theta = 0$
$\csc\theta = \varnothing$
$\sec\theta = -1$
$\cot\theta = \varnothing$

22)
$\sin\theta = -1$
$\cos\theta = 0$
$\tan\theta = \varnothing$
$\csc\theta = -1$
$\sec\theta = \varnothing$
$\cot\theta = 0$

24)
$\sin\theta = -\frac{1}{\sqrt{10}}$
$\cos\theta = -\frac{3}{\sqrt{10}}$
$\tan\theta = \frac{1}{3}$
$\csc\theta = -\sqrt{10}$
$\sec\theta = -\frac{\sqrt{10}}{3}$
$\cot\theta = 3$

26)
$\sin\theta = -\frac{4}{5}$
$\cos\theta = \frac{3}{5}$
$\tan\theta = -\frac{4}{3}$
$\csc\theta = -\frac{5}{4}$
$\sec\theta = \frac{5}{3}$
$\cot\theta = -\frac{3}{4}$

28) $\cos\frac{3\pi}{2} = 0$

30) $\sec\frac{3\pi}{2} = \varnothing$

32) $\tan\pi = 0$

34) $\csc\pi = \varnothing$

36a) $51°$
b) $46°$

38a) $35°$
b) $59°$

40a) $\frac{\pi}{4}$
b) $\frac{\pi}{9}$

42a) $\frac{\pi}{3}$
b) $\frac{3\pi}{10}$