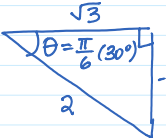
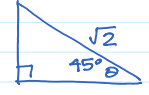
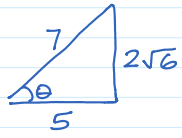
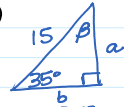
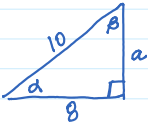


p. 439: 1-4, 17-22, 27, 29, 30, 33, 34, 39, 40, 45-48

- ① positive y-axis, 450° ② 2nd quad, 135° ③ 3rd quad, $-\frac{3\pi}{4}$
 ④ 4th quad, $-\frac{\pi}{4}$ ①⑦ $\frac{1}{2}$ ①⑧ $\frac{\sqrt{3}}{2}$ ①⑨ 1 ②⑩ $-\sqrt{2}$ ②⑪ $\frac{1}{2}$ ②⑫ $\frac{2}{\sqrt{3}}$

⑲ 0 ⑲  $\sin\theta = -\frac{1}{2}$ $\csc\theta = -2$ ⑳ $\approx \frac{3\pi}{4}$
 $\cos\theta = \frac{\sqrt{3}}{2}$ $\sec\theta = \frac{2}{\sqrt{3}}$ $\sin\theta = \frac{1}{\sqrt{2}}$ $\csc\theta = \sqrt{2}$
 $\tan\theta = -\frac{1}{\sqrt{3}}$ $\cot\theta = -\sqrt{3}$ $\cos\theta = -\frac{1}{\sqrt{2}}$ $\sec\theta = -\sqrt{2}$
 $\tan\theta = -1$ $\cot\theta = -1$

⑳ $\sin\alpha = \frac{5}{13}$ $\csc\alpha = \frac{13}{5}$ ㉑  $\sin\theta = \frac{2\sqrt{6}}{7}$ $\csc\theta = \frac{7}{2\sqrt{6}}$ ㉒  $\sin 35^\circ = \frac{a}{15}$ $\cos 35^\circ = \frac{b}{15}$
 $\cos\alpha = \frac{12}{13}$ $\sec\alpha = \frac{13}{12}$ $\cos\theta = \frac{5}{7}$ $\sec\theta = \frac{7}{5}$ $a = 8.60$ $b = 12.27$
 $\tan\alpha = \frac{5}{12}$ $\cot\alpha = \frac{12}{5}$ $\tan\theta = \frac{2\sqrt{6}}{5}$ $\cot\theta = \frac{5}{2\sqrt{6}}$

⑳  $a = 6$
 $\sin\alpha = \frac{6}{10}$
 $\alpha = \sin^{-1}(\frac{3}{5}) = 36.87$
 $\sin\beta = \frac{8}{10}$
 $\beta = \sin^{-1}(\frac{4}{5}) = 53.13$

⑳ $y \Rightarrow -$
 $y/x \Rightarrow +$
 $x \Rightarrow -!$
 QUAD 3!

㉑ $x \Rightarrow -$
 $y \Rightarrow +$
 QUAD 2!

㉒ $y/x \Rightarrow -$
 $y \Rightarrow +$
 $x \Rightarrow -$
 QUAD 2!

㉓ $x \Rightarrow -$
 $y \Rightarrow +$
 QUAD 2!