The Unit Circle

II $(-, +)$

Positive: sin, csc
Negative: cos, tan, sec, cot

I $(+, +)$

Positive: sin, cos, tan, sec, csc, cot
Negative: none

$(\ ,\ )$

90° $\frac{\pi}{2} = 2 \cdot \frac{\pi}{4}$

$(-, -)$

$2 \cdot \frac{\pi}{3}$

$(-, -)$

$\frac{3\pi}{4}$

120°

$(-, -)$

135° $3 \cdot \frac{\pi}{4}$

$\frac{\pi}{3}$

60°

$\frac{\pi}{4}$

45°

$(-, -)$

$5 \cdot \frac{\pi}{6}$ 150°

$5 \times 30°$

$30°$ $\frac{\pi}{6}$

$(\ ,\ )$ π 180° $4 \cdot \frac{\pi}{4} = \pi$

$0°$
$360°$ 0
2π $(\ ,\ )$

$6 \cdot \frac{\pi}{3}$

$7 \times 30°$

210°

$7 \cdot \frac{\pi}{6}$

225°

$5 \cdot \frac{\pi}{4}$

240° $= 4 \times 60°$

$4 \cdot \frac{\pi}{3}$

$6 \cdot \frac{\pi}{4} = \frac{3\pi}{2}$

$11 \times 30°$

330° $11 \cdot \frac{\pi}{6}$

$7 \times 45°$

315° $7 \cdot \frac{\pi}{4}$

$5 \times 60°$ 300°
$5 \cdot \frac{\pi}{3}$

$(-, -)$

$(-, -)$

$(-, -)$

270° $6 \times 45°$

$(\ ,\ )$

Positive: tan, cot
Negative: sin, cos, sec, csc

III $(-, -)$

Positive: cos, sec
Negative: sin, tan, csc, cot

IV $(+, -)$