

① a) $\frac{2\pi}{2} = \boxed{\pi}$ b) $2\pi \cdot \frac{3}{4} = \frac{6\pi}{4} = \boxed{\frac{3\pi}{2}}$

② a) $\frac{2\pi}{4} = \boxed{\frac{\pi}{2}}$ b) $\frac{2\pi}{8} = \boxed{\frac{\pi}{4}}$

- ③ a) (1,0) b) (0,1) c) (0,1) (450°)
 d) (-1,0) e) (1,0) f) (0,1)

- ④ a) (1,0) b) (0,-1) c) (-1,0)
 d) (0,-1) e) (0,-1) f) (-1,0)

- ⑤ a) 0 to 1 ⑥ a) 1 to 0 ⑦ a) 1 to 0
 b) 1 to 0 b) 0 to -1 b) 0 to -1
 c) 0 to -1 c) -1 to 0 c) -1 to 0
 d) -1 to 0 d) 0 to 1 d) 0 to 1
 e) 0 to 1 e) 1 to 0 e) 1 to 0

- ⑧ a) 0 to -1
 b) -1 to 0
 c) 0 to 1
 d) 1 to 0
 e) 0 to -1

⑨ $\sin x = 1$ $0 \leq x \leq 4\pi$
 $\boxed{\frac{\pi}{2}, \frac{5\pi}{2}}$

⑩ $\cos x = 1$ $0 \leq x \leq 4\pi$
 $\boxed{0, 2\pi, 4\pi}$

⑪ $\sin x = 0$ $0 \leq x \leq 4\pi$
 $\boxed{0, \pi, 2\pi, 3\pi, 4\pi}$