

② $x = -4 \cos \frac{\pi}{4} = -4 \left(\frac{\sqrt{2}}{2} \right) = -2\sqrt{2}$
 $y = -4 \sin \frac{\pi}{4} = -4 \left(\frac{\sqrt{2}}{2} \right) = -2\sqrt{2}$
 (2√2, 2√2)

③ $x = -2 \cos 60 = -2 \left(\frac{1}{2} \right) = -1$
 $y = -2 \sin 60 = -2 \left(\frac{\sqrt{3}}{2} \right) = -\sqrt{3}$
 (-1, -√3)

②④ $(1, -\pi/4 + 2\pi n)$
 $(-1, -\pi/4 + (2n+1)\pi)$
 $(-1, -\pi/4 + 2\pi n + \pi)$
 $(-1, 3\pi/4 + 2\pi n)$
 $(1, -\pi/4 + 2\pi n)$

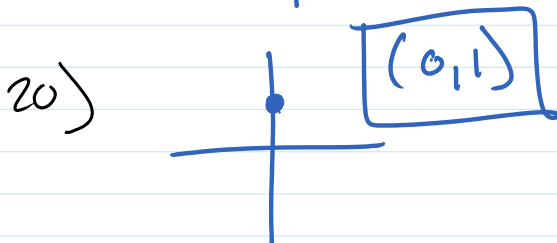
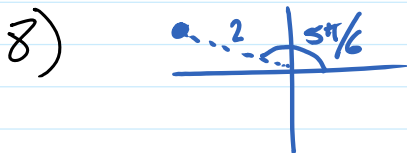
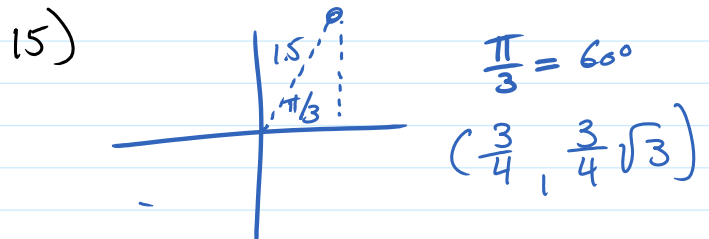
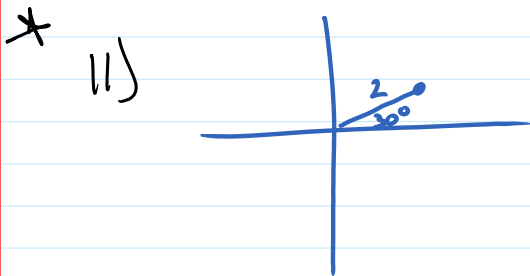
②⑤ $(1.5, -20^\circ + 360n)$
 $(-1.5, -20 + (2n+1)180)$
 $(-1.5, -20 + 360n + 180)$
 $(-1.5, 160^\circ + 360n)$
 $(1.5, -20^\circ + 360n)$

②⑧ $r = \sqrt{10}$
 $\theta = \tan^{-1}(3) = 1.25$

②⑨ $r = \sqrt{29}$
 $\theta = \tan^{-1}(5/-2) = 1.95$

- a) $(\sqrt{10}, 1.25)$
 $(-\sqrt{10}, 4.39)$
 b) $(\sqrt{10}, 1.25)$
 $(-\sqrt{10}, -1.89)$
 c) same as a & ...
 $(\sqrt{10}, 7.53)$
 $(-\sqrt{10}, 10.67)$

- a) $(\sqrt{29}, 1.95)$
 $(-\sqrt{29}, 5.09)$
 b) $(\sqrt{29}, 1.95)$
 $(-\sqrt{29}, -1.19)$
 c) same as a & ...
 $(\sqrt{29}, 8.23)$
 $(-\sqrt{29}, 11.37)$



a) $(\sqrt{2}, \frac{\pi}{4})$ $(-\sqrt{2}, \frac{5\pi}{4})$

b) $(\sqrt{2}, \frac{\pi}{4})$ $(-\sqrt{2}, -\frac{3\pi}{4})$

c) $(\sqrt{2}, \frac{\pi}{4})$ $(-\sqrt{2}, \frac{5\pi}{4})$
 $+2\pi \downarrow$ $(\sqrt{2}, \frac{9\pi}{4})$ $(-\sqrt{2}, \frac{13\pi}{4})$ $\uparrow +2\pi$