

(1.) $4 + 4i$ here is the problem
 $= 4[\cos 45 + i \sin 45]$ change to polar form

(2.) $-\sqrt{3} + i$ here is the problem
 $= 2[(-\sqrt{3}/2) + (1/2)i]$ factor 2 out front like this
 $= 2[\cos 150 + i \sin 150]$ change to polar form

(3.) $(\sqrt{3}/2) - (1/2)i$ here is the problem
 $= \cos 330 + i \sin 330$ change to polar form

(4.) $-1 + 0i$ here is the problem
 $= \cos 180 + i \sin 180$ change to polar form

(5.) $0 + i$ here is the problem
 $= \cos 90 + i \sin 90$ change to polar form

(6.) $-3 - 3\sqrt{3}$ here is the problem
 $= 3(-1 - \sqrt{3})$ factor
 $= 6[(-1/2) + (-\sqrt{3}/2)]$ factor
 $= 6[\cos 240 + i \sin 240]$ change to polar form

(7.) $\sqrt{3} - i$ here is the problem
 $= 2[(\sqrt{3}/2) - (1/2)i]$ factor
 $= 2[\cos 330 - i \sin 330]$ change to polar form

(8.) $\sqrt{2} + i\sqrt{2}$ here is the problem
 $= 4[(\sqrt{2}/2) + i(\sqrt{2}/2)]$ factor
 $= 4[\cos 45 + i \sin 45]$ write in polar form

(9.) $0 + 3i$ here is the problem

$$= 3(0 + i) \quad \text{factor}$$

$$= 3[\cos 90 + i \sin 90] \quad \text{write in polar form}$$

(10.) $-2 + 0i$ here is the problem

$$= 2[-1 + 0i] \quad \text{factor}$$

$$= 2 [\cos 180 + i \sin 180] \quad \text{write in polar form}$$

(11.) $-\sqrt{3} - i$ here is the problem

$$= 2[(-\sqrt{3}/2) - (1/2)i] \quad \text{factor}$$

$$= 2[\cos 210 - i \sin 210]$$

(12.) $1 + i$ here is the problem

$$= \sqrt{2}[(\sqrt{2}/2) + i(\sqrt{2}/2)] \quad \text{factor}$$

$$= \sqrt{2}[\cos 45 + i \sin 45]$$

(13.) $5 + 5i$ here is the problem

$$5\sqrt{2}[(\sqrt{2}/2) + i(\sqrt{2}/2)] \quad \text{factor}$$

$$= 5\sqrt{2}[\cos 45 + i \sin 45] \quad \text{write in polar form}$$

(14.) $-1 + i\sqrt{3}$ here is the problem

$$= 2[(-1/2) + i(\sqrt{3}/2)] \quad \text{factor}$$

$$= 2[\cos 120 + i \sin 120] \quad \text{write in polar form}$$

(15.) $-2 - 2i\sqrt{3}$ here is the problem

$$= 4[(-1/2) + i(\sqrt{3}/2)] \quad \text{factor}$$

$$= 4[\cos 120 + I \sin 120] \quad \text{write in polar form}$$

$$(17.) \quad (1/2)(\cos 60 + i \sin 60) \quad \text{here is the problem}$$

$$= (1/4) + i(\sqrt{3}/4) \quad \text{use the unit circle}$$

$$(18.) \quad 2(\cos 0 + i \sin 0) \quad \text{here is the problem}$$

$$= 2 \quad \text{use the unit circle}$$

$$(19.) \quad 3(\cos 330 + i \sin 330) \quad \text{here is the problem}$$

$$= 3[(\sqrt{3}/2) + i(-1/2)] \quad \text{use the unit circle}$$

$$(20.) \quad 4(\cos 225 + i \sin 225) \quad \text{here is the problem}$$

$$= 4[(-\sqrt{2}/2) - i(\sqrt{2}/2)] \quad \text{use the unit circle}$$

$$= -2\sqrt{2} - i\sqrt{2} \quad \text{multiply}$$

$$(21.) \quad \sqrt{2}[\cos (-45) + i \sin (-45)] \quad \text{here is the problem}$$

$$= 1 - I \quad \text{multiply}$$

$$(22.) \quad \cos (-\pi/6) + i \sin (-\pi/6) \quad \text{here is the problem}$$

$$= (\sqrt{3}/2) - (i/2) \quad \text{use the unit circle}$$

$$(23.) \quad 2[\cos (3\pi/4) + i \sin (3\pi/4)] \quad \text{here is the problem}$$

$$= -\sqrt{2} + i\sqrt{2} \quad \text{use the unit circle}$$

$$(24.) \quad 4[\cos (\pi/2) + i \sin (\pi/2)] \quad \text{here is the problem}$$

$$= 4i \quad \text{use the unit circle , multiply}$$