Find the values in standard form:

$(-\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{62}$ $= cis^{62}(-135°) = cis(-62 \times 135°) = cis(2 \times 135°) = -i$

$(\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2})^{88} = 1$

$(-\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{67} = \frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2}$

$(\frac{1}{2} - i\frac{\sqrt{3}}{2})^{84} = 1$

$(-\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{43} = \frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2}$

$(\frac{\sqrt{3}}{2} + i\frac{1}{2})^{28} = -\frac{1}{2} + i\frac{\sqrt{3}}{2}$

$(-\frac{\sqrt{3}}{2} - i\frac{1}{2})^{48} = 1$

$(\frac{1}{2} - i\frac{\sqrt{3}}{2})^{11} = \frac{1}{2} + i\frac{\sqrt{3}}{2}$

$(-\frac{\sqrt{3}}{2} + i\frac{1}{2})^{24} = 1$

$(-\frac{1}{2} - i\frac{\sqrt{3}}{2})^{96} = 1$

$(\frac{\sqrt{3}}{2} + i\frac{1}{2})^{49} = \frac{\sqrt{3}}{2} + i\frac{1}{2}$

$(\frac{\sqrt{3}}{2} - i\frac{1}{2})^{78} = -1$

$(\frac{1}{2} + i\frac{\sqrt{3}}{2})^{14} = -\frac{1}{2} + i\frac{\sqrt{3}}{2}$

$(\frac{\sqrt{3}}{2} - i\frac{1}{2})^{21} = i$

$$(-\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2})^{100} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$(-\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2})^{95} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$(-\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2})^{28} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$(\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2})^{90} = -1$$

$$(\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2})^{81} = i^{27} = -i$$

$$(-\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2})^{66} = i^{22} = -1$$

$$(-\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2})^{12} = 1$$

$$(\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2})^{41} = \tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}$$

$$(\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2})^{69} = -1$$

$$(-\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2})^{100} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$(\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2})^{60} = 1$$

$$(-\tfrac{\sqrt{2}}{2} + i\tfrac{1\sqrt{2}}{2})^{74} = -i$$

$$(-\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2})^{20} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$(-\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2})^{59} = -\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2}$$

$$(\tfrac{\sqrt{2}}{2} + i\tfrac{\sqrt{2}}{2})^{94} = i^{47} = -i$$

$$\left(-\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}\right)^{82} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$\left(\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}\right)^{81} = -1$$

$$\left(-\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{52} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$\left(\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{81} = \left(-i\right)^{27} = i$$

$$\left(\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}\right)^{84} = 1$$

$$\left(-\tfrac{\sqrt{2}}{2} + i\tfrac{\sqrt{2}}{2}\right)^{90} = -i$$

$$\left(\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{47} = \tfrac{\sqrt{3}}{2} + i\tfrac{1}{2}$$

$$\left(-\tfrac{\sqrt{2}}{2} + i\tfrac{\sqrt{2}}{2}\right)^{93} = \tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}$$

$$\left(\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}\right)^{50} = -\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}$$

$$\left(-\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{89} = -\text{cis}\left(30° \times 5\right) = \tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}$$

$$\left(-\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}\right)^{54} = 1$$

$$\left(\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{95} = \tfrac{\sqrt{3}}{2} + i\tfrac{1}{2}$$

$$\left(-\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}\right)^{33} = -\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}$$

$$(-i)^{49} = -i$$

$$\left(-\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}\right)^{56} = 1$$

$(-\frac{\sqrt{3}}{2} + i\frac{1}{2})^{54} = -1$

$(\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{24} = 1$

$(-\frac{\sqrt{3}}{2} - i\frac{1}{2})^{71} = -\frac{\sqrt{3}}{2} + i\frac{1}{2}$

$(\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2})^{92} = -1$

$(\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{56} = 1$

$(i)^{96} = 1$

$(-i)^{38} = -1$

$(-\frac{1}{2} - i\frac{\sqrt{3}}{2})^{12} = 1$

$(\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{39} = \frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$

$(-\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2})^{93} = \frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2}$

$(-\frac{1}{2} + i\frac{\sqrt{3}}{2})^{95} = -\frac{1}{2} - i\frac{\sqrt{3}}{2}$

$(\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{84} = -1$

$(\frac{1}{2} - i\frac{\sqrt{3}}{2})^{45} = -1$

$(\frac{1}{2} + i\frac{\sqrt{3}}{2})^{55} = \frac{1}{2} + i\frac{\sqrt{3}}{2}$

$(-\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2})^{60} = -1$

$$\left(\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}\right)^{86} = -\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}$$

$$\left(\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}\right)^{75} = -1$$

$$\left(-\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}\right)^{65} = -\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}$$

$$\left(\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{53} = -\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}$$

$$\left(-\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2}\right)^{97} = -\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2}$$

$$\left(\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}\right)^{36} = -1$$

$$\left(\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}\right)^{41} = \tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}$$

$$\left(-\tfrac{\sqrt{2}}{2} - i\tfrac{\sqrt{2}}{2}\right)^{34} = i^{17} = i$$

$$(-i)^{35} = i$$

$$\left(-\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}\right)^{84} = 1$$

$$\left(-\tfrac{\sqrt{3}}{2} + i\tfrac{1}{2}\right)^{52} = cis\left(-30° \times 4\right) = -\tfrac{1}{2} - i\tfrac{\sqrt{3}}{2}$$

$$\left(-\tfrac{1}{2} + i\tfrac{\sqrt{3}}{2}\right)^{33} = 1$$

$$\left(\tfrac{\sqrt{2}}{2} + i\tfrac{\sqrt{2}}{2}\right)^{80} = 1$$

$$\left(\tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}\right)^{85} = \tfrac{\sqrt{3}}{2} - i\tfrac{1}{2}$$

$$\left(\tfrac{\sqrt{2}}{2} + i\tfrac{\sqrt{2}}{2}\right)^{83} = -\tfrac{\sqrt{2}}{2} + i\tfrac{\sqrt{2}}{2}$$

$(-i)^{68} = 1$

$(-\frac{1}{2} + i\frac{\sqrt{3}}{2})^{19} = -\frac{1}{2} + i\frac{\sqrt{3}}{2}$

$(-i)^{66} = -1$

$(i)^{96} = 1$

$(i)^{66} = -1$

$(-\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2})^{73} = -\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$

$(-\frac{1}{2} + i\frac{\sqrt{3}}{2})^{40} = -\frac{1}{2} + i\frac{\sqrt{3}}{2}$

$(-\frac{\sqrt{3}}{2} + i\frac{1}{2})^{60} = 1$

$(\frac{\sqrt{3}}{2} + i\frac{1}{2})^{89} = -\frac{\sqrt{3}}{2} + i\frac{1}{2}$

$(-\frac{1}{2} + i\frac{\sqrt{3}}{2})^{50} = -\frac{1}{2} - i\frac{\sqrt{3}}{2}$

$(i)^{99} = -i$

$(i)^{93} = i$

$(\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2})^{83} = -\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$

$(i)^{82} = -1$

$(-\frac{\sqrt{3}}{2} - i\frac{1}{2})^{25} = -\frac{\sqrt{3}}{2} - i\frac{1}{2}$

$$\left(-\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}\right)^{39} = -\frac{\sqrt{2}}{2} - i\frac{\sqrt{2}}{2}$$

$$\left(-\frac{\sqrt{3}}{2} + i\frac{1}{2}\right)^{50} = \frac{1}{2} - i\frac{\sqrt{3}}{2}$$

$$(i)^{40} = 1$$

$$\left(\frac{\sqrt{3}}{2} + i\frac{1}{2}\right)^{30} = -1$$

$$\left(\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}\right)^{100} = -1$$

$$\left(-\frac{\sqrt{3}}{2} - i\frac{1}{2}\right)^{19} = \frac{\sqrt{3}}{2} + i\frac{1}{2}$$

$$\left(-\frac{\sqrt{3}}{2} - i\frac{1}{2}\right)^{90} = -1$$

$$\left(-\frac{\sqrt{3}}{2} + i\frac{1}{2}\right)^{30} = -1$$

$$(i)^{40} = 1$$

$$\left(\frac{\sqrt{3}}{2} + i\frac{1}{2}\right)^{89} = -\frac{\sqrt{3}}{2} + i\frac{1}{2}$$

$$\left(\frac{1}{2} + i\frac{\sqrt{3}}{2}\right)^{30} = 1$$