

7, 8, 17, 19, 20, 2, 10

$$2. -\sqrt{-11}$$

$$-i\sqrt{11}$$

$$7. -\frac{5}{i} \cdot \frac{i}{i} = \frac{-5i}{i^2} = \frac{-5i}{-1} = 5i$$

$$8. \frac{18}{\sqrt{-3}} \cdot \frac{\sqrt{-3}}{\sqrt{-3}} = \frac{18\sqrt{-3}}{-3}$$

$$-6\sqrt{-3} = -6i\sqrt{3}$$

$$10. i\sqrt{50}(\sqrt{-18})$$

$$i\sqrt{50} \cdot i\sqrt{18}$$

$$i^2 \sqrt{900}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ 30 \quad 30 \end{array}$$

$$-30$$

17, 19, 20

17. $(1 - i\sqrt{3})^2$

$$(1 - i\sqrt{3})(1 - i\sqrt{3})$$

$$1 - i\sqrt{3} - i\sqrt{3} + i^2 \cdot 3$$

$$1 - 2i\sqrt{3} - 3$$

$$\underline{-2 - 2i\sqrt{3}}$$

18. i^{37}

$$37/4 = 9.25 \Rightarrow i$$

20. i^{132}

$$132/4 = 33 \Rightarrow 1$$

$$i = i$$

$$1/4 = .25$$

$$i^2 = -1$$

$$2/4 = .5$$

$$i^3 = -i$$

$$3/4 = .75$$

$$i^4 = 1$$

$$4/4 = 1$$