Ecrire les nombres suivants sous forme exponentielle et trigonométrique:

2.
$$z = -7i$$

3. $z = 1 + i$

1. z = -18

3.
$$z = 1 + i$$

4.
$$z = (1+i)^5$$

 $1 + i\sqrt{3}$

5.
$$z = \frac{1 + i\sqrt{3}}{\sqrt{3} - i}$$

6. $z = -2e^{i\frac{\pi}{3}}e^{-i\frac{\pi}{4}}$

5.
$$z = \frac{1}{\sqrt{3} - i}$$
6. $z = -2e^{i\frac{\pi}{3}}e^{-i\frac{\pi}{4}}$

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

6. $z = -2e^{i\frac{\pi}{3}}e^{-i\frac{\pi}{4}}$

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

6. $z = -2e^{i\frac{\pi}{3}}e^{-i\frac{\pi}{4}}$
7. $z = -10e^{i\pi} \left(\frac{2e^{i\frac{5\pi}{8}}}{e^{i\frac{7\pi}{4}}}\right)^{6}$

$$\frac{-i}{\frac{1}{3}}e^{-i\frac{\pi}{4}} \\
\cdot \left(2e^{i\frac{5\pi}{8}}\right)^{6}$$

9. $z = \frac{1}{\frac{i}{2} - \frac{1}{2\sqrt{2}}}$

 $k\pi$, $k \in \mathbb{Z}$

10.
$$z = \left(\frac{1 + i\sqrt{3}}{1 - i}\right)^{20}$$

11. $z = \frac{1}{1 + i\tan\theta}, \ \theta \neq \frac{\pi}{2} + k\pi, \ k \in \mathbb{Z}$

12. $z = \left(\frac{1+i\tan(\theta)}{1-i\tan(\theta)}\right)^n, \ n \in \mathbb{N}, \ \theta \neq \frac{\pi}{2} +$

8. $z = -5\left(\cos\left(\frac{2\pi}{5}\right) + i\sin\left(\frac{2\pi}{5}\right)\right)$