
facit?

■ 12

- a. $4\sqrt{2} \left[\cos\left(\frac{\pi}{4}\right) + i \sin\left(\frac{\pi}{4}\right) \right]$
- b. $\sqrt{10} \left[\cos(\pi + \arctan 3) + i \sin(\pi + \arctan 3) \right]$
- c. $\sqrt{298} \left[\cos(\phi) + i \sin(\phi) \right]$, där $\phi = -\arctan[3/17]$

■ 13

- a. $\cos\left(-\frac{\pi}{6}\right) + i \sin\left(-\frac{\pi}{6}\right)$
- b. $3 \left(\cos\left(\frac{\pi}{3}\right) + i \sin\left(\frac{\pi}{3}\right) \right)$
- c. $3 \left[\cos\left(\frac{\pi}{6}\right) + i \sin\left(\frac{\pi}{6}\right) \right]$ Feltryck i uppgiften, skall vara $z_1 \cdot z_2$
- d. $\frac{1}{3} \left[\cos\left(-\frac{\pi}{2}\right) + i \sin\left(-\frac{\pi}{2}\right) \right]$

■ 14

- a. $\frac{3}{2} + i \frac{3\sqrt{3}}{2}$
- b. $\frac{3\sqrt{3}}{2} - i \frac{3}{2}$
- c. $\frac{\sqrt{3}}{2} - i \frac{3}{2}$

■ 15

- a. $\frac{9\sqrt{3}}{2} + i \frac{9}{2}$
- b. $9 \left(\cos\left(\frac{\pi}{12}\right) + i \sin\left(\frac{\pi}{12}\right) \right)$
- d. i

■ 16

- a. -27
- b. $243 \left(\cos\left(-\frac{5\pi}{6}\right) + i \sin\left(-\frac{5\pi}{6}\right) \right)$