

Tenta MVE425 2015-08-26: svar.

1. (a) $x = e^{-1}$

(b) $\frac{\ln 10}{0,64} \approx 3,6$ timmar.

2. (a) $x = 6^\circ$, $x = 30^\circ$, $x = 78^\circ$

(b) $x = \frac{5\pi}{12} + n \cdot \pi$, $n \in \mathbb{Z}$

(c) $x = \pm \frac{\pi}{8} + n \cdot \pi$, $n \in \mathbb{Z}$

3. Sida $\approx 2,15$ cm, vinklar $\approx 107,3^\circ$ och $\approx 52,7^\circ$.

4. $z = \sqrt{3} + i$, $\sqrt{3} - i$, $-\sqrt{3} + i$, $-\sqrt{3} - i$, $2i$, $-2i$

5. (a) 7

(b) $\frac{1}{6}$

6. $c = 13$, $\phi = \arctan(-\frac{5}{12}) + 180^\circ \approx 157,4^\circ$

7. $z = 2 + i$, $z = -2i$, $z = -1$

8. Se läroboken!