

1

$$\textcircled{1} \quad \log(x^3+8) - \frac{1}{2} \log(x^2+4x+4) = \log 7$$

משבטן פלורן

$$x \neq -2 \leftarrow \begin{array}{l} x^2+4x+4 > 0 \\ x^3+8 > 0 \end{array}$$

$$\boxed{x > -2}$$

$$\log[(x+2)(x^2-2x+4)] - \log(x+2) - \log 7 = 0$$

$$\log \left[\frac{(x+2)(x^2-2x+4)}{(x+2)7} \right] = 0$$

$$\frac{x^2-2x+4}{7} = 1$$

$$x^2-2x+4=7 \rightarrow x^2-2x-3=0$$

$$\boxed{\begin{array}{l} x=3 \\ x=-1 \end{array}}$$