

6.04

måndag 19 december 2022

10:08

$$a) \frac{1-i}{1^2-i^2} = \frac{1-i}{\underline{\underline{2}}}$$

$$b) \frac{3+4i}{3^2-(4i)^2} = \frac{3+4i}{\underline{\underline{25}}}$$

$$c) \frac{(3-4i)(1-i)}{1^2-i^2} =$$

$$= \frac{3-3i-4i-4}{\underline{\underline{2}}} =$$

$$= \frac{-1-7i}{\underline{\underline{2}}}$$

$$d) \frac{(1-i)^2}{2} = \frac{1^2-2i-\cancel{1}}{2} = \underline{\underline{-i}}$$

$$e) \frac{1}{(1+i)^2} = \frac{1}{2i} = \frac{-2i}{4} = \underline{\underline{-\frac{i}{2}}}$$

$$f) \underline{\underline{-i}}$$