

Eindexamen wiskunde A1 vwo 2002-II

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Alcohol

$$15. \quad \frac{5}{40} = \frac{x}{10} \quad \rightarrow \quad 1,25 \text{ cl alcohol}$$

$$\frac{1,25}{35} = \frac{y}{100} \quad \rightarrow \quad 3,57 \text{ cl jenever}$$

$$16. \quad \text{Percentage} = \frac{100}{65} \cdot 1,45 \% = 2,23 \%$$

$$17. \quad P = 1 - \Phi\left(\frac{0,7 - 0,48 - 0}{0,1}\right) = 1 - 0,986 = 0,014$$

Of met de GR:

$$\text{normalcdf}(0,22, 10^{99}, 0, 0,1) = 0,0139$$

$$18. \quad P = 1 - \Phi\left(\frac{x - 0}{0,02}\right) = 0,01 \quad \rightarrow \quad x = 0,04653$$

Of met de GR:

$$\text{invnorm}(0,99, 0, 0,02) = 0,0465$$

$$\text{Bestrafen bij promillage} \quad 0,5 + 0,05 = 0,55$$