

10.1.1

Økt 7

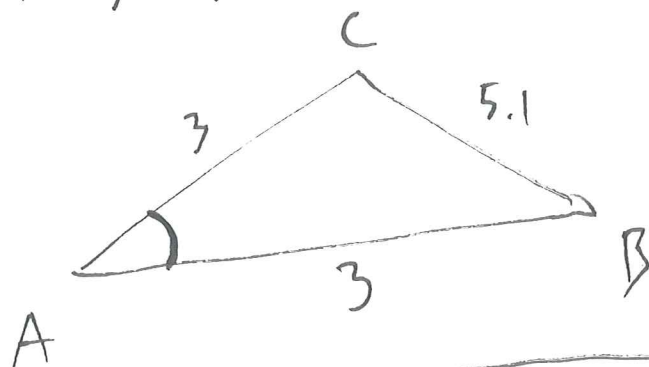
$$A = (0, 0, 0) \quad B = (2, -1, -2)$$

①

$$|AB| = \sqrt{(2-0)^2 + (-1-0)^2 + (-2-0)^2} = \sqrt{4+1+4} = 3$$

10.1.7

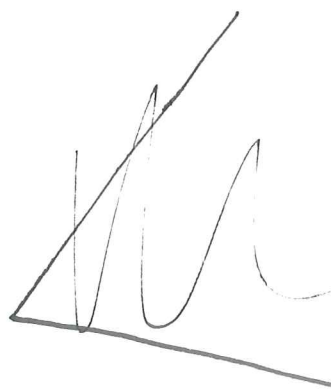
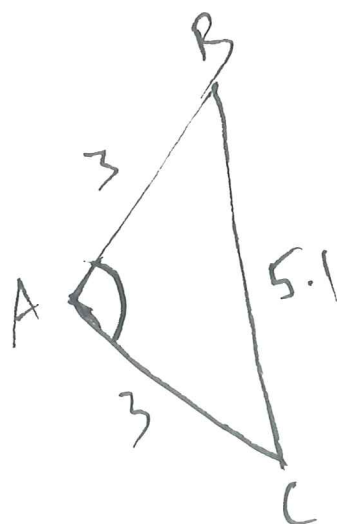
$$A = (2, -1, -1) \quad B = (0, 1, -2) \quad C = (1, -3, 1)$$



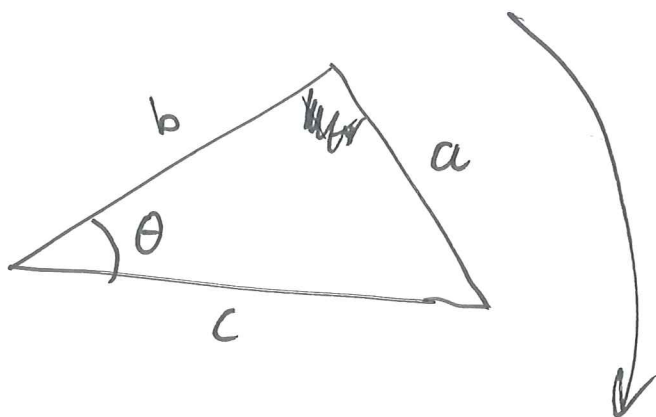
$$|AB| = \sqrt{(0-2)^2 + (1-(-1))^2 + (-2-(-1))^2}$$
$$= \sqrt{4 + 4 + 1} = 3$$

$$|AC| = 3$$

$$|BC| = \sqrt{26} \approx 5.1$$



$$a^2 = b^2 + c^2 - 2 \cdot b \cdot c \cdot \cos(\theta)$$



$$a = \sqrt{26}$$

$$b = 3$$

$$c = 3$$

$$2bc \cos \theta = b^2 + c^2 - a^2$$

$$\cos \theta = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\theta = \cos^{-1} \left( \frac{b^2 + c^2 - a^2}{2bc} \right)$$

$$\theta = \cos^{-1} \left( \frac{9 + 9 - 26}{2 \cdot 3 \cdot 3} \right)$$

$$\theta = \cos^{-1} \left( -\frac{4}{9} \right)$$

$$\theta = 116.4^\circ$$

$$\tan \theta = \frac{\text{mots.}}{\text{nos.}}$$

ikke relevant

fordi vi ikke  
vet hvorvidt

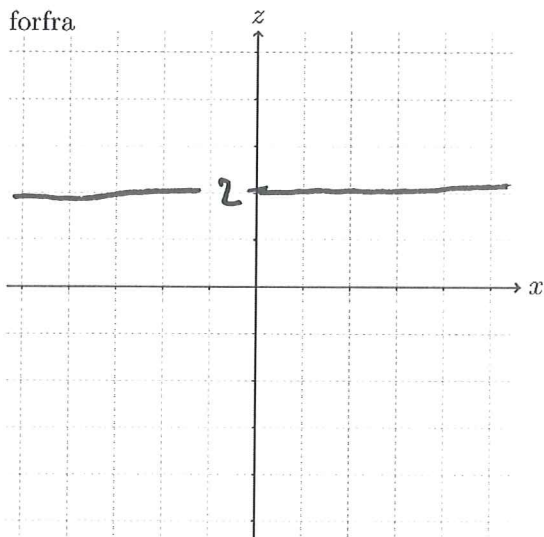
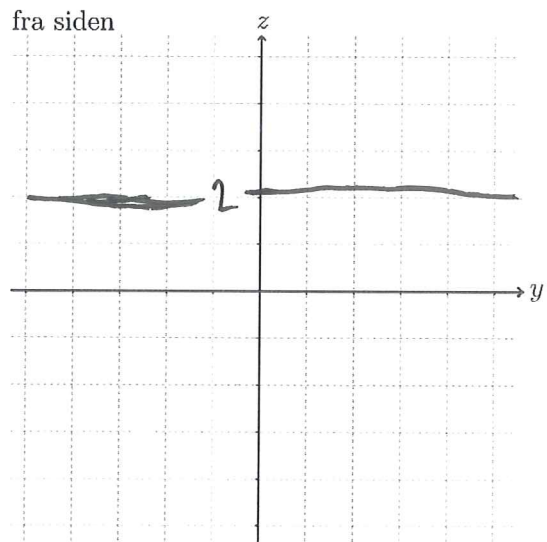
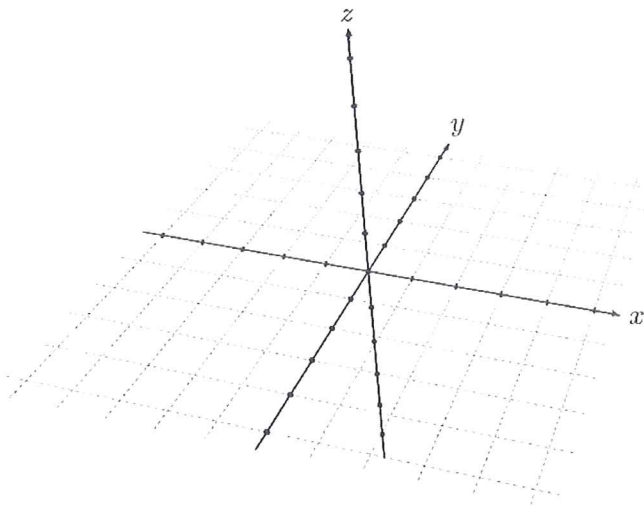
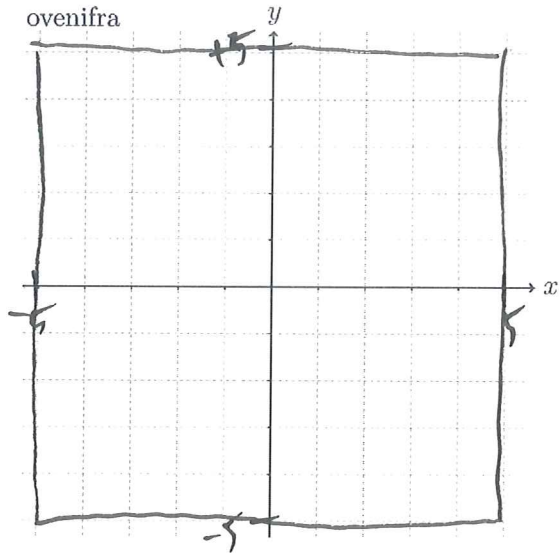
ABC er retthjkket.

10.1.12

$$z=2$$

Øst 7

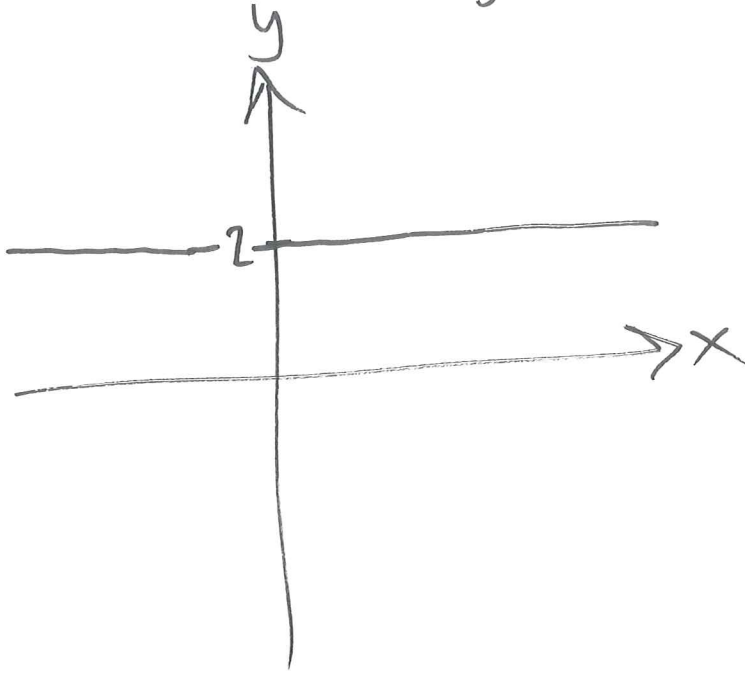
③



$$y=2$$

$\phi_n + 7$

④

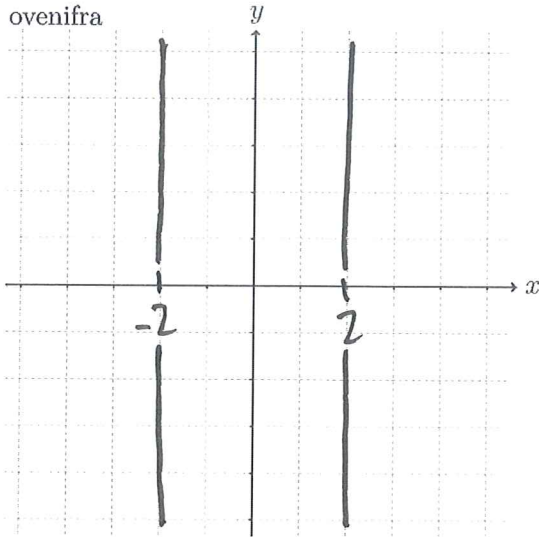


10.1.20

$$x^2 + z^2 = 4$$

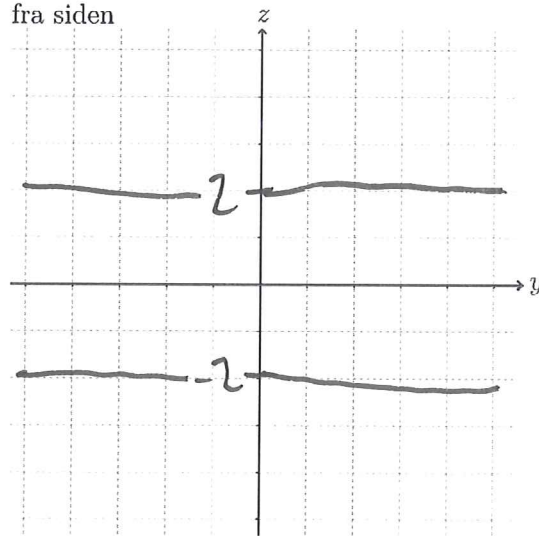
Økt 7 (5)

ovenifra



$$x^2 = 4$$
$$x = \pm 2$$

fra siden



$$z^2 = 4$$
$$z = \pm 2$$

forfra

