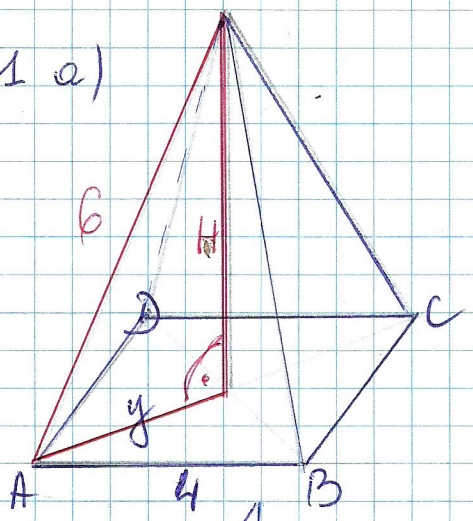
Zad 1 a)



AC - przekątna

$d = 4\sqrt{2}$

$y = \frac{1}{2}d$

$y = \frac{1}{2} \cdot 4\sqrt{2} = 2\sqrt{2}$

2. Tw. Pitagorasa

$H^2 + (2\sqrt{2})^2 = 6^2$

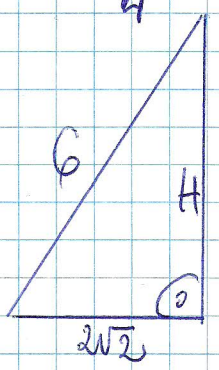
$H^2 + 4 \cdot 2 = 36$

$H^2 + 8 = 36$

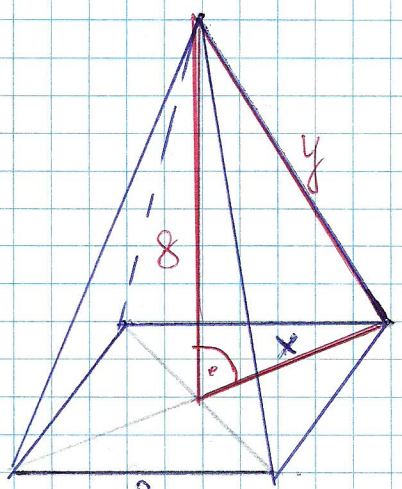
$H^2 = 36 - 8$

$H^2 = 28$

$H = \sqrt{28} = \sqrt{4 \cdot 7} = 2\sqrt{7}$

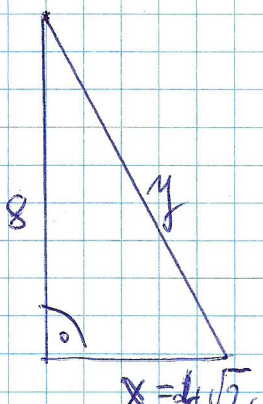


b)



x - połowa przekątnej kwadratu o boku 8

$x = \frac{1}{2} \cdot 8\sqrt{2} = 4\sqrt{2}$



2 tw. Pitagorasa

$8^2 + (4\sqrt{2})^2 = y^2$

$64 + 16 \cdot 2 = y^2$

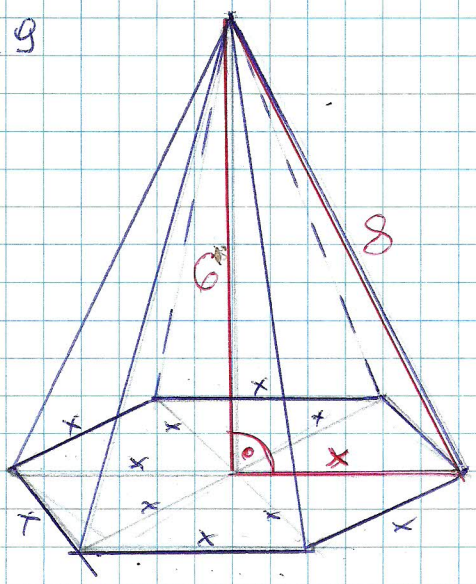
$64 + 32 = y^2$

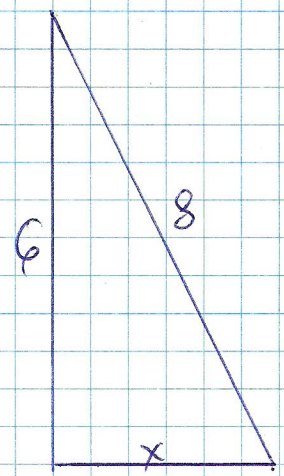
$y^2 = 96$

$y = \sqrt{96} = \sqrt{16 \cdot 6} = 4\sqrt{6}$

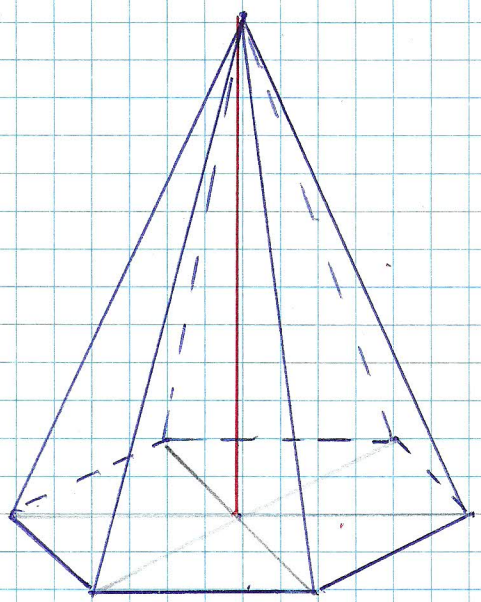
Zad 9

a)



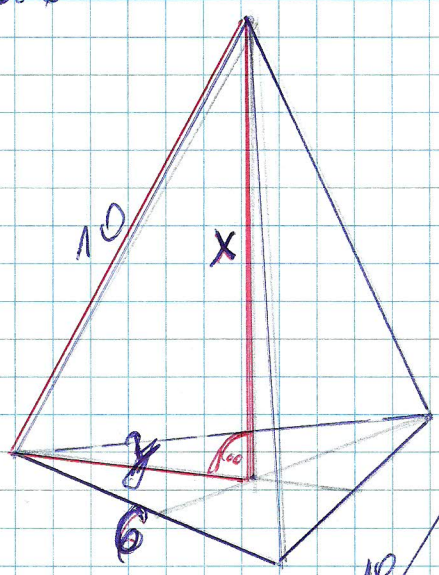


b)



Zad 6

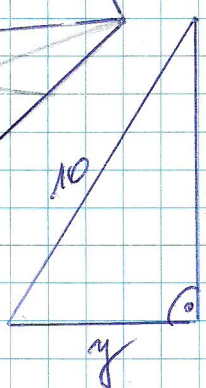
a)



$y = \frac{2}{3}$ wysokości trójkąta równobocznego, który jest w podstawie.

$h =$

$y =$



Z tw. Pitagorasa: