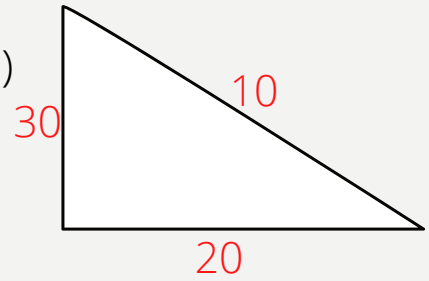
PYTHAGOREAN THEOREM

Use the pythagorean theorem to show if the triangle is a right triangle.

1)



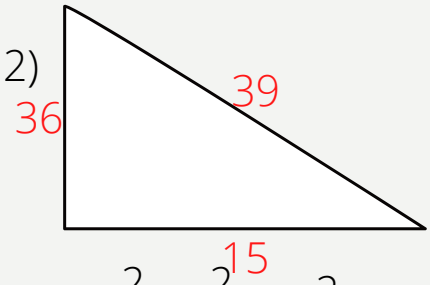
$a^2 + b^2 = c^2$

$10^2 + 20 = 30^2$

$100 + 200 = 900$

$300 \neq 900$

2)



$a^2 + b^2 = c^2$

$15^2 + 36^2 = 39^2$

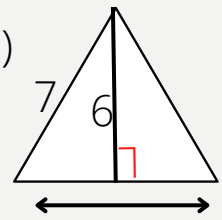
$225 + 1296 = 1521$

$1521 = 1521$

This is right angle triangle

Find X.Estimatte the answer the nearest whole number.

3)



$a^2 + b^2 = c^2$

$7^2 + 6 = c^2$

$49 + 36 = c^2$

$85 = c$

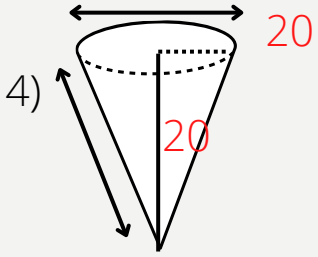
c = 8.1

$x = 2c$

$x = 2 \times 8.1$

x = 16.2

4)



$a^2 + b^2 = c^2$

$20^2 + 20^2 = c^2$

$\left(\frac{20}{2}\right)^2 + 20^2 = c^2$

$10^2 + 20^2 = c^2$

$100 + 400 = c^2$

$500 = c^2$

c = 22