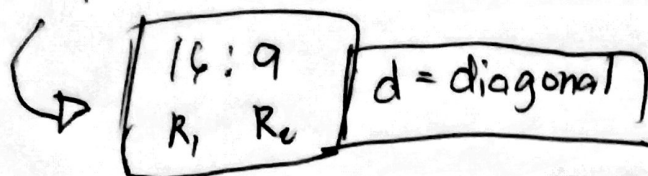
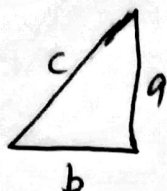


Need:

Aspect ratio = 16:9



$$(R_1)^2 + (R_2)^2 = d$$



~~a = calculated (a)~~

~~b = input or calculated (width)~~

~~c = calculated (d-diagonal)~~

$$d = \sqrt{(R_1)^2 + (R_2)^2}$$

or  $(W)^2$       or  $(H)^2$

$$d = \sqrt{(16)^2 + (9)^2} = H \sqrt{\frac{d^2}{1+R^2}} \leftarrow [a]$$

$$d = \sqrt{337}$$

d = 18.4 ← diagonal measurement

- Calculate the ratio of the diagonals in inches

example: 16:9 & a 22" screen

22 / 18.4 = 1.198 ← use the value (1.198) ← ratio

So:

$$16 \times 1.198 = \text{19.17 width}$$

$$9 \times 1.198 = \text{10.78 height}$$

finally:

$$19.17 \times 10.78 = \text{206.8 sq in}$$

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