Projecto Final P5JS 1º Semestre

Equipa no Github:

pf-cci-raquel teresa

Respectivos membros:

```
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```

Link do formulário:

https://docs.google.com/forms/d/e/1FAIpQLSc3adYh wFDJ9nUADZfnKzNVALhQC3fALZwdhF 2b1YVhska-w/viewform?usp=sf_link

Link da interação:

https://eselx.github.io/pf-cci-raquel teresa/

Tema do trabalho:

Elementos de Euclides

```
Referências:
```

```
Boneco de fala
function setup() {
  createCanvas(600, 900);
}

function draw() {
  background(220);

//Balão de fala
fill(250)
rect(90, 20, 325, 55, 10, 10, 10, 1);

//texto
fill(87, 37, 144)
  textSize(20);
textAlign(LEFT);
text('Olá,o meu é Euclides! ', 100, 50);
```

```
textAlign(LEFT);
text('Eu provei o Teorema de Pitagoras!', 100, 70);
 ///////EUCLIDES
 //camisola
 fill(250, 30, 0)
 ellipse(50,90,40,50)
  //manta
 fill(230, 227, 14)
 ellipse(50,90,20,50)
 //cara
 fill(244, 226, 206)
ellipse(50,60,40)
 //barba
 fill(250)
 ellipse(50,80,20,30)
 //nariz
 fill(244, 226, 206)
 ellipse(50,64,10)
 //olho1
 fill(250)
 ellipse(40,60,10)
 fill(0)
 ellipse(40,60,3)
 //olho2
 fill(250)
 ellipse(60,60,10)
 fill(0)
```

ellipse(60,60,3)

```
//chapeu
 fill(0,0,266)
 ellipse(50,44,40,20)
 //////////INTERAÇÃO
}
Botão 1
 let button;
function setup() {
 createCanvas(400, 400);
 background(0);
 button = createButton('Botão da resposta!');
 button.position(49, 219);
 button.mousePressed(Resposta);
}
function Resposta() {
 let val = random(255);
 background(val);
  }
Botão 2
var a, b;
function setup() {
 // create canvas
 createCanvas(710, 700);
```

```
background(220, 250, 255);
//pergaminho
fill(0)
textSize(22);
text("E se...", 10, 370);
a = createInput();
a.position(130, 380);
a.size(50);
text("valor de a=", 20, 400);
b = createInput();
b.position(130, 410);
b.size(50);
text("valor de b=", 20, 430);
button = createButton('Calcular c');
button.size(210,30)
button.position(20, 450);
button.mousePressed(findc);
///////EUCLIDES
```

```
//////Trianguloabc
}
function findc() {
 c = a.value() *a.value() + b.value()* b.value();
 textSize(32);
 text("O valor de c é igual a "+c, 260, 470);
 ///////EUCLIDES
 ///////EUCLIDES
}
Triângulo
function setup() {
createCanvas(400, 400);
}
function draw() {
 background(220);
 strokeWeight(3);
 //A//
 stroke(63, 230, 14)
 line(30, 225, 185, 225);
```

```
//B//
stroke(230, 27, 14)
line(30, 150, 30, 225);

//C//
stroke(14, 138, 230)
line(30, 150, 185, 225);
}
```

PROPOSITION XLVII. THEOREM.



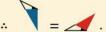
N a right angled triangle the square on the hypotenuse is equal to the sum of the squares of the sides, (and ...).

On _____, ____ and _____ describe squares, (pr. 46.)

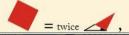
Draw (pr. 31.) also draw ____ and ____.



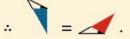




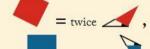
Again, because ____ ||







Again, because ____ ||



twice

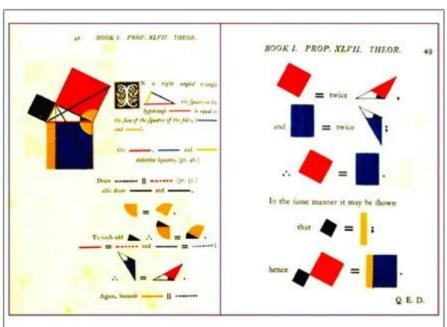


In the same manner it may be shown

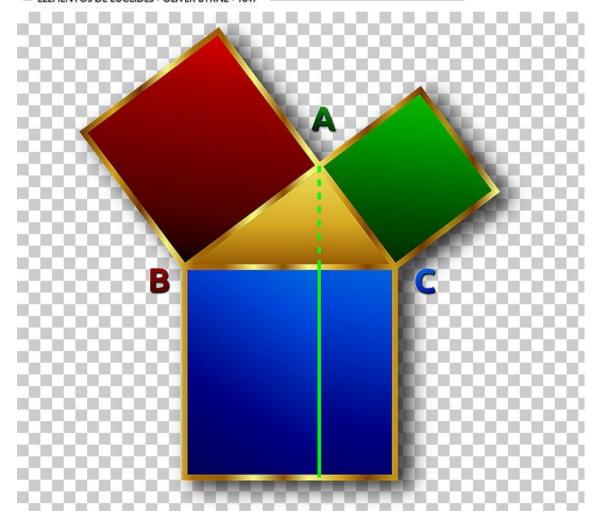


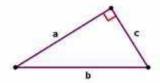


Q. E. D.



LELEMENTOS DE EUCLIDES - OLIVER BYRNE - 1847





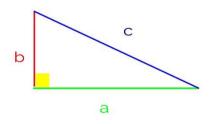
Practice:

If a = 6 and b = 8, c = ?

$$b^2 = a^2 + c^2$$
 \rightarrow $c^2 = b^2 - a^2$

$$c^2 = b^2 - a^2$$

$$c^2 = 8^2 - 6^2 = 64 - 36 = 28$$



então

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

E se....

a=____



Então c éiguala _____

