Ejercicios Funciones Arrow

1.-Crea un fichero FuncionesArrow.js en el que transformes las siguientes funciones utilizando la sintaxis de las funciones arrow. Crea una página html donde demuestres el uso de dichas funciones:

```
function sum(num1, num2){
    return num1 + num2
}

sum(40,2)
sum(42,0)
```

```
function stringLength(str){
    console.log(`the length of "${str}" is:`, str.length)
}

let longestCityNameInTheWorld = "Taumatawhakatangihangakoauauotamateaturipukakapikimaungahoronukupokaiwhenuakitanatahu"

stringLength(longestCityNameInTheWorld)
```

```
function stringLength(str){
    let length = str.length
    console.log(`the length of "${str}" is:`, length)
    return str.length
}

stringLength("willynilly")
```

```
let alerts = ["Hey, you are awesome", "You are so wonderful", "What a marvel you are", "You're so lovely", "You're so sweet that I'd think you're a sweet potato -- and I LOOOOVE POTATOES"]

function showAlert(name){
    alert(alerts[(Math.floor(Math.random()*alerts.length))] + `, ${name}!`)
}


showAlert("you ball of fluff")
```

2.Write an arrow function that returns the string, Hello, I am ${name}, and I am ${age} years old.

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3. Write an arrow function that takes an array of integers, and returns the sum of the elements in the array. Google and use the built-in reduce array method for this.

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4. The syntax of this function is wonky. Can you fix it to use the shortest arrow function possible?

```
let eye = "eye";

const fire =
(

) =
>
{
 return `bulls-`;
}
```

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9. Refactor the following ES5 function to use an arrow function:

```
const fibonacci = function(n) {
if (n < 3) return 1;
```

```
return fibonacci(n - 1) + fibonacci(n - 2);
}
```