✓ Congratulations! You passed!

Grade received 100%   **To pass** 80% or higher

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1. What is the purpose of the `useState` hook in React?

1 / 1 point

- ○ To bind a value to the props of a component.
- ○ To bind an event handler to an element.
- ◉ To manage the component's state
- ○ To manage the component's context

> ✓ **Correct**
> That's correct. The `useState` hook allows you to manage the component's state by declaring a state variable and a setter function for updating the state.

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2. What is missing from the code below?

1 / 1 point

```
1    import { useState } from "react";
2
3    export default function App() {
4      const [restaurantName, setRestaurantName] = useState();
5      return <h1>{restaurantName}</h1>;
6    }
```

- ○ The `useState` hook import statement
- ◉ An initial value for the state variable `restaurantName`
- ○ The `setRestaurantName` function.
- ○ `useReducer` hook was not used

> ✓ **Correct**
> That's correct. The `useState` hook requires an initial value to be passed as an argument in order to properly bind a value to the state of a component. Without an initial value, the state variable `restaurantName` will be undefined and the component will not render correctly.

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3. Controlled components keep their internal state in the DOM

1 / 1 point

- ○ True

○ False

> ✓ **Correct**
> That's correct. Uncontrolled components keep their state in the DOM, but not controlled components

4. What is unit testing in React?

1 / 1 point

○ A type of testing that ensures that a complete application is working as intended.

○ A type of testing that involves manually testing a component's UI.

○ A type of testing that ensures that a component's props and state are correctly being passed down to its children.

◉ A type of testing that ensures that individual units of code are working as intended.

> ✓ **Correct**
> That's correct. Unit testing involves testing individual units of code to ensure that they are working as intended.

5. What is the main difference between the `useState` and `useReducer` hooks in React?

1 / 1 point

○ `useState` is used for managing component state, while `useReducer` is used for managing the component's UI.

○ `useState` is used for managing component state, while `useReducer` is used for managing the component lifecycle.

◉ `useState` is used for simple state updates, while `useReducer` is used for complex state updates.

○ `useState` is used for managing component state, while `useReducer` is used for managing global state.

> ✓ **Correct**
> That's correct. The `useState` hook is used for simple state updates, while the `useReducer` hook is used for more complex state updates that involve reducing the current state and an action to a new state.