```
(* Quiz 7 | BC | C Period*)
```

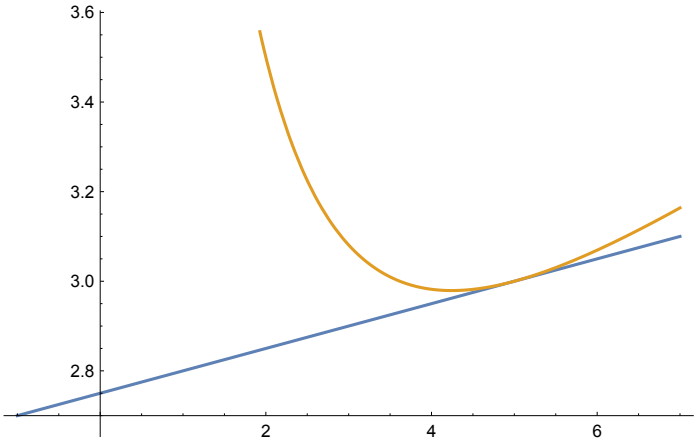
```
D[Sqrt[x - 1] + (5 / x), x]
```

$$\frac{1}{2\sqrt{-1+x}} - \frac{5}{x^2}$$

```
% /. {x → 5}
```

$$\frac{1}{20}$$

```
Plot[{3 + (1 / 20) (x - 5), Sqrt[x - 1] + (5 / x)}, {x, -1, 7}]
```




```
(* Quiz 7 | BC | B Period *)
```

```
D[Sqrt[x] + 3 / (x - 1), x]
```

$$-\frac{3}{(-1+x)^2} + \frac{1}{2\sqrt{x}}$$

```
% /. {x → 4}
```

$$-\frac{1}{12}$$

```
Plot[{3 + (-1 / 12) (x - 4), Sqrt[x] + (3 / (x - 1))}, {x, -1, 7}]
```