≡ ← **Back**   **Lesson 9**
                Graded Quiz • 12 min

coursera

Due Nov 15, 1:59 AM EST

≡ ✅ **Congratulations! You passed!**
Item Navigation

Grade received 90%   **To pass** 75% or higher

Lesson 9

Quiz • 12 min **Go to next item**

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1. **For Questions 1-3, refer to the bus waiting time example from the lesson.**   **1 / 1 point**
✅ **Receive grade**
    Recall that we used the conjugate gamma prior for λ, the arrival rate in busses per minute. Suppose our prior belief about
To Pass this rate is that it should have mean 1/20 arrivals per minute with standard deviation 1/5. Then the prior is $\mathrm{Gamma}(a, b)$
    with $a = 1/16$.

Your grade Find the value of b. Round your answer to two decimal places.

90%

> 1.25

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✓ **Correct**
We keep your highest score
This is $b = 5/4$ which results in prior mean $a/b = 1/(16b) = 1/20$ and prior standard deviation $\sqrt{a/b} =$
$1/(\sqrt{16b}) = 1/5$.