Solutions

$X \sim Exp(2)$

Mean: 0.5 Variance: 0.25 s.d: 0.5

$X \sim Exp(17)$

Mean: 0.05882 Variance: 0.003460 s.d: 0.05882

$X \sim Exp(9.6)$

Mean: 0.1042 Variance: 0.01085 s.d: 0.1042

$X \sim Exp(0.84)$

Mean: 1.1904 Variance: 1.4172 s.d: 1.1904

$X \sim Exp(31.8)$

Mean: 0.03145 Variance: 0.0009889 s.d: 0.03145

$X \sim Exp(3/7)$

Mean: 2.3333 Variance: 5.4444 s.d: 2.3333

If the mean of an exponential distribution is known to be 6, state the value of the paramter λ: 0.1667

If the mean of an exponential distribution is known to be 0.8, state the value of the paramter λ: 1.25

If the mean of an exponential distribution is known to be 2.7, state the value of the paramter λ: 0.3704