X follows an exponential distribution with parameter 2

$f(x)=2e^{-2x}$

X follows an exponential distribution with parameter 3

$f(x)=3e^{-3x}$

$F(2)$

$P(X<2)$

X follows an exponential distribution with parameter 4

$F(3)-F(2)$

$f(x)=4e^{-4x}$

X follows an exponential distribution with parameter 0.5

$f(x)=0.5e^{-0.5x}$

$P(X<3)$

$F(3)$

$P(X>3)$

$1-F(3)$

$P(2<X<3)$

$F(0.2)-F(0.1)$

$P(0.1<X<0.2)$

X follows an exponential distribution with parameter 0.1

$P(X>2)$

$F(2.5)-F(1.5)$

X follows an exponential distribution with parameter 0.01

$F(x)=1-e^{-0.01}$

$f(x)=0.1e^{-0.1x}$

X follows an exponential distribution with parameter 0.25

$F(x)=1-e^{-0.25}$

$1-F(2)$

X follows an exponential distribution with parameter 0.6

$F(x)=1-e^{-0.6}$

X follows an exponential distribution with parameter 0.7

$F(x)=1-e^{-0.7}$

$P(1.5<X<2.5)$

$F(x)=1-e^{-0.2x}$

$F(2)-F(1)$

X follows an exponential distribution with parameter 0.2

$P(1<X<2)$

$P(X>4)$

$1-F(4)$

$P(1<X<3)$

$F(3)-F(1)$

$P(X<4)$

$F(4)$