

The Exam Data

Suppose we have 10 balls numbered from 1 to 10, and that we want to draw 5 balls together and randomly, then return them, and draw another five balls again and repeat this procedure in 100 times. The MATLAB code which does the above operation is:

for i = 1:100
 randperm(10)*5
end

randperm(10) * 100

None of the other options

for i = 1:100
 randperm(10, 5)
end

randperm(10, 5) * 100

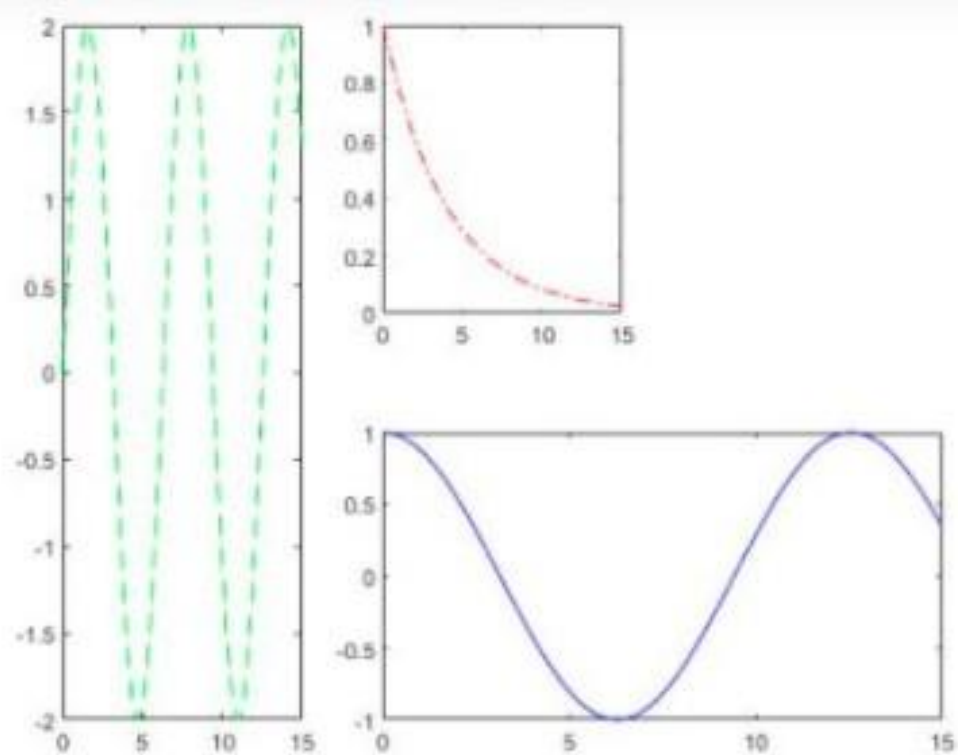
randperm(5) * 100

[Clear my choice](#)

What is the standard error of the estimate $S_{y/x}$ for the regression line of the points (1, 8) (2, 8.25) (3, 7.9) (4, 8.4) and (5, 8.3)?

- None of the other options
- 0.2014
- 0.2652
- 0.2477

POWERUNIT



```
t = tiledlayout(2,3);
```

```
nexttile
```

```
plot(x, y2, 'g--')
```

```
nexttile([1 2])
```

```
plot(x, y1, 'r-.')
```

```
nexttile([2 1])
```

```
nexttile([2 1])
```

```
plot(x, y3, 'b')
```

POWERUNIT

Daily temperatures at noon were collected and stored in the array T1. What is the probability that the temperature on any given day is less than 22?

- None of the other options
- 20%
- 30.685%
- 69.315%
- 80%

[Clear my choice](#)

POWERUNIT

Suppose we have 10 balls numbered from 1 to 10, and that we want to draw 5 balls randomly, but each time we draw a ball, we return it. We repeat this procedure 100 times (drawing five random balls). The MATLAB code which does the above operation is:

`randi(10,1,5)`

`randi(5,1,10) * 100`

`for i = 1:100
 randi(5,1,10)
end`

`for i = 1:100
 randi(10,1,5)
end`

None of the other options

`randi(5,10,100)`

The seven points in the vector $\mathbf{d3}$ are the y-coordinates of the x-points 1 to 7. These points are scattered around the line $y = x$. Relative to the line $y = x$, these points are:

- Accurate, not precise
- Not accurate, precise
- Accurate, precise
- Not accurate, not precise

[Clear my choice](#)

What is the area under the curve for the function with roots -1 , -2 , and -5.5 over the range -5 to 5 ?

None of the other options

818.3333

485.0000

-265

-431.6667

POWERUNIT

What is the maximum of the function $e^{-0.5x} \sin(0.5x)$ in the range $[-5, 5]$?

- 0.3224
- None of the other options
- 7.4605
- 4.7124
- 1.5708

Clear my choice

POWERUNIT

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