

Matlab Quiz Game

- 7 questions.
- Raise your hand before answering.
- Use Matlab Only! No calculators or other software/programs.

Question 1

$$\sin(\sqrt{\pi}) + \ln(\tan(1)) = ?$$

1.) 1.3228

2.) 1.4228

3.) 1.4328

4.) 2.4228

$$\sin(\sqrt{\pi}) + \ln(\tan(1)) = ?$$

Answer:

>> $\sin(\text{sqrt}(\text{pi})) + \log(\tan(1))$

1.) 1.3228

2.) 1.4228 😊

3.) 1.4328

4.) 2.4228

Question 2

$$2^{3.5 \times 1.7} = ? ?$$

1.) 19.2333

2.) 29.2333

3.) 61.7199

4.) 61.8199

Question 2

$$2^{3.5 \times 1.7} = ??$$

Answer:

$$>> 2^{(3.5*1.7)}$$

>> $2^{3.5*1.7}$ is incorrect !! Why?

1.) 19.2333

2.) 29.2333

3.) 61.7199

4.) 61.8199 😊

Question 3

Do **NOT** touch the keyboard.

What will you get if input $5*2^4/2-1$ to Matlab?

1.) 4999

2.) 39

3.) 19

4.) 9

Question 3. $5*2^4/2-1$

Answer:

Exponential operation has the highest order of precedence.

So $5*(2^4)/2-1=5*16/2-1=5*8-1=39$.

1.) 4999

2.) 39 😊

3.) 19

4.) 9

Question 4

$$\frac{3}{13} + \frac{4}{14} + \frac{5}{15} = ??$$

- 1.) 232/273
- 2.) 233/273
- 3.) 131/275
- 4.) 132/2730

Question 4

$$\frac{3}{13} + \frac{4}{14} + \frac{5}{15} = ??$$

Answer: Everyone please type in -

>> format rational

>> 3/13+4/14+5/15

1.) 232/273 😊

2.) 233/273

3.) 131/275

4.) 132/2730

Question 5 Continue the previous question ..

$$\frac{3}{13} + \frac{4}{14} + \frac{5}{15} = ??$$

- 1.) 0.74981384981682
- 2.) 0.84981484981683
- 3.) 0.84981584981684
- 4.) 0.84981684981685

Question 5 Continue the previous question ..

$$\frac{3}{13} + \frac{4}{14} + \frac{5}{15} = ??$$

Answer: From Q4, the variable "ans" is 232/273

>> format long

>> ans

1.) 0.74981384981682

2.) 0.84981484981683

3.) 0.84981584981684

4.) 0.84981684981685 😊

Question 6

$$a=(6,12,18)=(a_1,a_2,a_3)$$

$$b=(7,14,21)=(b_1,b_2,b_3)$$

Find $a \cdot b$ and the column vector $(a_1 \cdot b_1, a_2 \cdot b_2, a_3 \cdot b_3)$.

- 1.) 488 and (42,164,378)
- 2.) 488 and (42,168,388)
- 3.) 588 and (42,168,378)
- 4.) 588 and (42,168,388)

Question 6

$$a=(6,12,18)=(a_1,a_2,a_3)$$

$$b=(7,14,21)=(b_1,b_2,b_3)$$

Find $a \cdot b$ and the column vector $(a_1 \cdot b_1, a_2 \cdot b_2, a_3 \cdot b_3)$.

Answer:

```
>> a=[6;12;18];
```

```
>> b=[7;14;21];
```

```
>> dot(a,b)
```

```
>> a.*b
```

- 1.) 488 and (42,164,378)
- 2.) 488 and (42,168,388)
- 3.) 588 and (42,168,378) 😊
- 4.) 588 and (42,168,388)

Question 7 the last one!

$$e^{\sin(10)} = ??$$

1.) 0.5804

2.) 0.6804

3.) 0.7804

4.) 0.8804

Question 7

$$e^{\sin(10)} = ??$$

Answer:

>> exp(sin(10))

1.) 0.5804 😊

2.) 0.6804

3.) 0.7804

4.) 0.8804

Happy Back to School !

Wish You a Successful Semester !!