



Make and test conjectures

1

2, 5, 8, 11



1



2



3



4

A

2, 5, 8, 11

B

9, 16, 25

2

18, 14, 10, 6

A



B

**3**

2, 4, 6, ?



1



2



3

?

4

A

6

B

8

C

2

D

3

E

11

F

14

4

2, ?, 8, 11

?



1

2



3



4

A

11

B

6

C

8

D

3

E

5

F

14

5

0, 20, __, __, __, 100, 120

A

40, 60, 80

B

40, 70, 100

C

50, 80, 110

D

50, 70, 90

E

30, 50, 70

F

50, 60, 70

6

32, 28, __, __, __, 12, 8

A

24, 21, 18

B

24, 20, 16

C

25, 22, 19

D

25, 21, 17

E

24, 19, 14

F

25, 20, 15

7

400, 350, __, __, __, 150, 100

A

290, 240, 190

B

310, 250, 190

C

300, 260, 220

D

300, 250, 200

E

310, 270, 230

F

300, 240, 180

8

Is this cofunction identity correct?

$$\csc(\beta) = \sin(90^\circ - \beta)$$

A

No

B

Yes



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9

Each letter is a digit (0-9). Is the digit '0' possible in the box with a question mark?

$$\begin{array}{r} \\ \\ \times \\ \hline \end{array}$$

A Yes

B No

10

Each letter is a digit (0-9). Is the digit '1' possible in the box with a question mark?

$$\begin{array}{r} \\ \\ \times \\ \hline \end{array}$$

A Yes

B No

11

Is this cofunction identity correct?

$$\sec(\beta) = \cos(90^\circ - \beta)$$

A

No

B

Yes

12

Each letter is a digit (0-9). Is the digit '0' possible in the box with a question mark?

$$\begin{array}{r} \\ \\ \times \\ \hline \end{array}$$

A Yes

B No