

Attendance Quiz # 1

HEXIN B1

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Attendance question:

According to the Internet ...

Where Dennis Deturck got his undergrad degree: Drexel University

What university dose PSA graduate: MIT

Part (II)

1. $\text{Ceil}(1/x) = 2$.

$$EF(7/12) = \frac{1}{2} + EF\left(\frac{7}{12} - \frac{1}{2}\right) = \frac{1}{12}$$

ANS: The EF of $7/12$ is $\frac{1}{12} + \frac{1}{2}$.

(b) Because both $1/3$ and $1/4$ is easy to divide than $1/2$.

$$2. x \equiv 1 \pmod{3} \quad x \equiv 2 \pmod{5}$$

1 (2, 4) 2 (1, 3) 3 (0, 2) 4 (1, 1) 5 (2, 0) 6 (0, 1)

7 (1, 2) 8 (2, 3) 9 (0, 4) 10 (1, 0) 11 (2, 1) 12 (0, 2) 13 (1, 3)

14 (2, 4) 15 (0, 0) 16 (1, 1) 17 (2, 2) 18 (0, 3) 19 (1, 4) 20 (2, 0)

21 (0, 1) 22 (1, 2)

Two smallest positive integers are 7 and 22