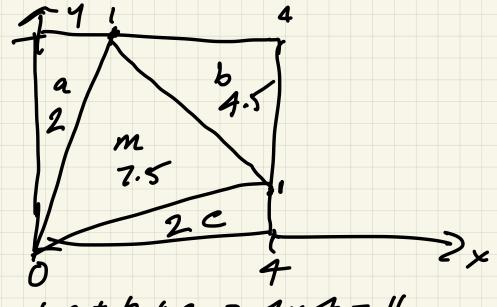
Math with Sean

2020-03-28



$$b = \frac{3\times3}{2} = \frac{9}{2} = 4.5$$

$$m = 16 - 8.5 = 7.5$$

$$\begin{array}{c|c}
a & 6 \\
\hline
 & 6.5 & 2 \\
\hline
 & c & 3 & 4
\end{array}$$

$$a = \frac{1}{2} - 6$$
 $b = 4 \times 1 = 2$
 $C = \frac{3 \times 1}{2} = 1.5$
 $a + 6 + c = 9.5$

4×1 3×2 =3 3 4x2= P=16-9= .5 n 157/

23.
$$C \le 35$$
 $C = 35$
 $C = 35$
 $C = 235$
 $C = 6N$
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$$C = 6N \quad 1 \le N \le 5$$

$$Cab = c^{2} = (6, N)^{2}$$

$$6ab = 36 \cdot N^{2}$$

$$ab = 6N^{2} \quad 1 \le N \le 5$$

$$N = 1 \quad ab = 6 \quad \S^{1,2,3,6} \quad C = 6$$

$$0 \le a \le b \quad a \quad b \quad ab$$

$$0 \le a \le b \quad a \quad b \quad ab$$

$$1 \le 3$$

$$N = 1 \quad 4$$

$$N = 1 \quad 4$$

N=2 $ab=6N^2$

$$ab = 6N^{2}$$
 $N = 3$
 $= 54 = 2.3.3.3$
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 $= 2.3^{3}$ $C = 6N$
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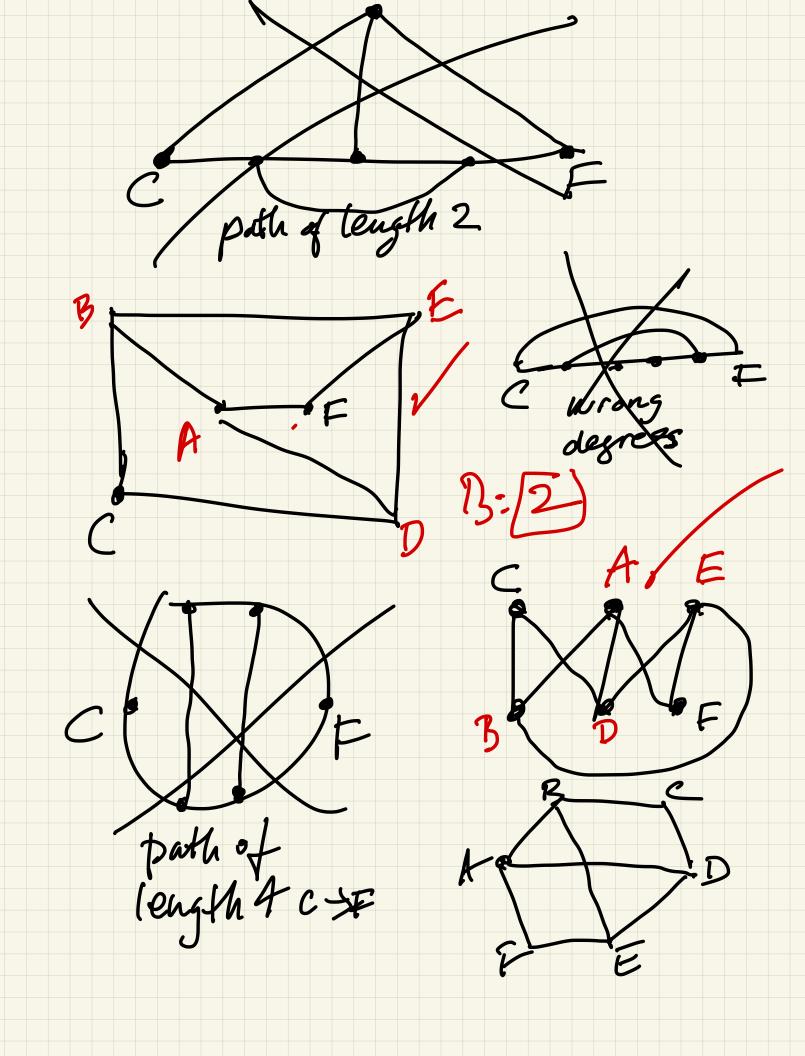
N=4 $ab=6.N^2=6.16$ 96=2.3.4.4 22.3.2.2.2 = 25.3° C= 6N = 24 (2) (3) 2 ab = 96 12 values of a 196 12 values of b 196 6 solutions

$$N=5$$
 $ab=6 \cdot N^2$
 $=6.5^2$
 $=6.25$
 $=150$
 $150 = 2 \cdot 3 \times 5^2$
 $2 \cdot 2 \cdot 3 \times 5^2$
 $2 \times 2 \times 3 = 12$
 $2 \times 2 \times 3 = 12$
 $N \neq 56$
 $1 \times 2 \times 3 \times 6$
 $1 \times$

N=4 C=6N=24 $ab = 6N^2 = 96 = 2^5.3'$ 6×2 = 12 2×37 a | b ab < 24 1 1 96 212148 ab = 96 8 1 8 12 -C = 24 16 1 16 32+32+3 133 32 236 162 4312 8 2 solutions 8324 4 16348 32396

ab=6.N2=6.25=150 150 = 2'3'.52 C=6N =30 2 × 3 × 5 2 | a b $\frac{1}{5}$ $\frac{1}{30}$ $\frac{1}{30}$ 25 25 6 3 1-13 25 75 1 2 75 5 10 15 25 50 1 6 25 171+2+2+2 = 8 soluting

count 2 33233 (BCDHA Total



25
$$p = row number$$

if $V(k) = n$
 $W(k) = 2n + 1 \implies W(k)$
 $X(k) = 3n + 1 \implies X(k) \mod 3 = 1$
 $Y(k) = 5n + 1$
 $Z(k) = 7n + 1$
 $Z(k) = 7n + 1$
 $Z(k) = 2731 = V(j) \cdot Z + 1$
 $Z(k) = 2731 - 1 = 2730 = 1365$
 $Z = 2731 \mod 3 = 1$
 $Z = 390$
 Z

$$Z(a) = 7 V(a) + 1 = 2731$$

 $V(a) = 2730 = 390$
 $W: 390 \mod 2 = 0 \neq 1$ never opposit
 $X: 390 \mod 3 = 0 \neq 1$. $x = 2$
 $Y: 390 \mod 3 = 0 \neq 1$. $x = 2$
 $Y: 390 \mod 3 = 0 \neq 1$. $x = 2$
 $Y: 390 \mod 3 = 0 \neq 1$ never $Y = 2$
 $Z: 390 \mod 7 = 5 \neq 1$ newe $Z = 2$

$$\frac{1}{a} = 5\sqrt{a} + 1$$

$$= 273($$

$$\sqrt{a} = 2731 - 1$$

$$= 2730$$

$$= 2730$$

$$= 546$$

N: 546 mod 2 = 0 7 (X: 546 mod 3 = 0 7 (

7:546 mod 5 = 1 could eppear 2:546 mod 7 = 0 x1 in 4

Can 546 ever appear in 7? Assume it appears in row a. 546=5. V(a)+1 V(a) = 546 - 1= 545 = 109 109 can appear in V if it never appears in W, X, Y, Z W: 109 mox 2 = 1 => could

X: 109 mod 3 = 1 E) "

Y: 109 mad 5 = 4\$1

7: 09 mad 7 = 4 +1