Breschame Line diawry algorithm: Exercise. Dano levie 6/10 (2, 1) < (10,12)  $m = \frac{4 \times -4}{72 \times 21} = \frac{12-1}{10-2} = \frac{11}{8} = 1.375 > 1$ Po = 20x - Dy PK + Ve, Pm, = PK+262 -204 Po -- 2(8) -11 = 16-11 - 5 along y & cale 2. PK-VL, PK+1=PK+2DZ 2 mi, ykti Phr. (au, yk+1) (3,2)5+2(8)-2(11)= (3,3)-1+2(8) (4,4) 2 15+2(8)-2(11) 15 (5,5) 9+2(8)-2(11) (6,6) 3+2(8)-2(1) 3 (b, 7) -3 t2(8) (7,8) 13 +2(8)-2(11) (8,9) 7 +2(8)-2(1) (9,10) 1+2(8)-2(11) (9,11) -5 +2(8) (10,12) 000 · (Tol)2 10

2/8/21

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Rotale a Dle (4/6)(2,2)(6,2) about valor (4/6)
 by 180' counterclockinse & find new vertex.

(050 - Rind 2x(1-cos0)+4500)

Rot. w.rt. find pt =

sind cos0 2yr(1-cos0) = 2x sind

0 0
             800. (8). Pet pince
R. = [-1 0 8]
0 -1 12
0 0 1
 P^{l} = R \cdot P

**Wholisis, (2,2)

P^{l} = \begin{bmatrix} -1 & 0 & 8 \\ 0 & -1 & 12 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \\ 1 \end{bmatrix} = \begin{bmatrix} 6 \\ 10 \\ 1 \end{bmatrix}
  For violet (6,2)
P' = \begin{bmatrix} -1 & 0 & 8 \\ 0 & -1 & 12 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 6 \\ 2 \\ 1 \end{bmatrix} = \begin{bmatrix} 2 \\ 10 \\ 1 \end{bmatrix}
 Vooler (4,6) remains fred.
    New leiangle cie deaven? (4,6) (6,10) 2 (2,10)
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Réflectusi assout the line y=-2 us equivalent to a reflection relative to the y-axis followed by a counter clockwise notation of 8 degrees. Find Rot work fixed pto = ette ralue & O. Soluluin: Given, Reby=-2 = Rot. (0). Reby-axie =) # CS L ws 8 = 00 -1500 0 = -1 0 = +90"-= 0 67/600 14/18 0 1-1 1 4 1 1 61