

Find the sum of the interior angles shown below. (5 pts. each)

Determine the "error of angular closure" and record it in the space provided.

Note: error of closure = measured sum – design sum (5 pts. each)

Polygon #1

83° 23' 00"  
105° 27' 00"  
158° 31' 00"  
53° 19' 00"  
138° 18' 00"

error = \_\_\_\_\_

Polygon #2

96° 34' 00"  
111° 42' 00"  
183° 12' 00"  
88° 57' 00"  
139° 21' 00"  
100° 18' 00"

error = \_\_\_\_\_

Polygon #3

89° 53' 49"  
113° 25' 25"  
228° 31' 09"  
63° 16' 21"  
108° 08' 08"  
219° 52' 14"  
79° 43' 29"  
177° 14' 26"

error = \_\_\_\_\_

Polygon #4

90° 04' 58"  
111° 42' 00"  
129° 42' 18"  
81° 37' 22"  
151° 51' 46"  
100° 48' 03"  
234° 11' 30"

error = \_\_\_\_\_

Polygon #5

94° 23' 47"  
127° 27' 41"  
238° 01' 48"  
83° 39' 08"  
179° 28' 24"  
101° 44' 20"  
74° 28' 58"  
144° 49' 06"  
215° 19' 20"  
155° 27' 00"  
77° 55' 33"  
158° 30' 20"  
328° 49' 09"

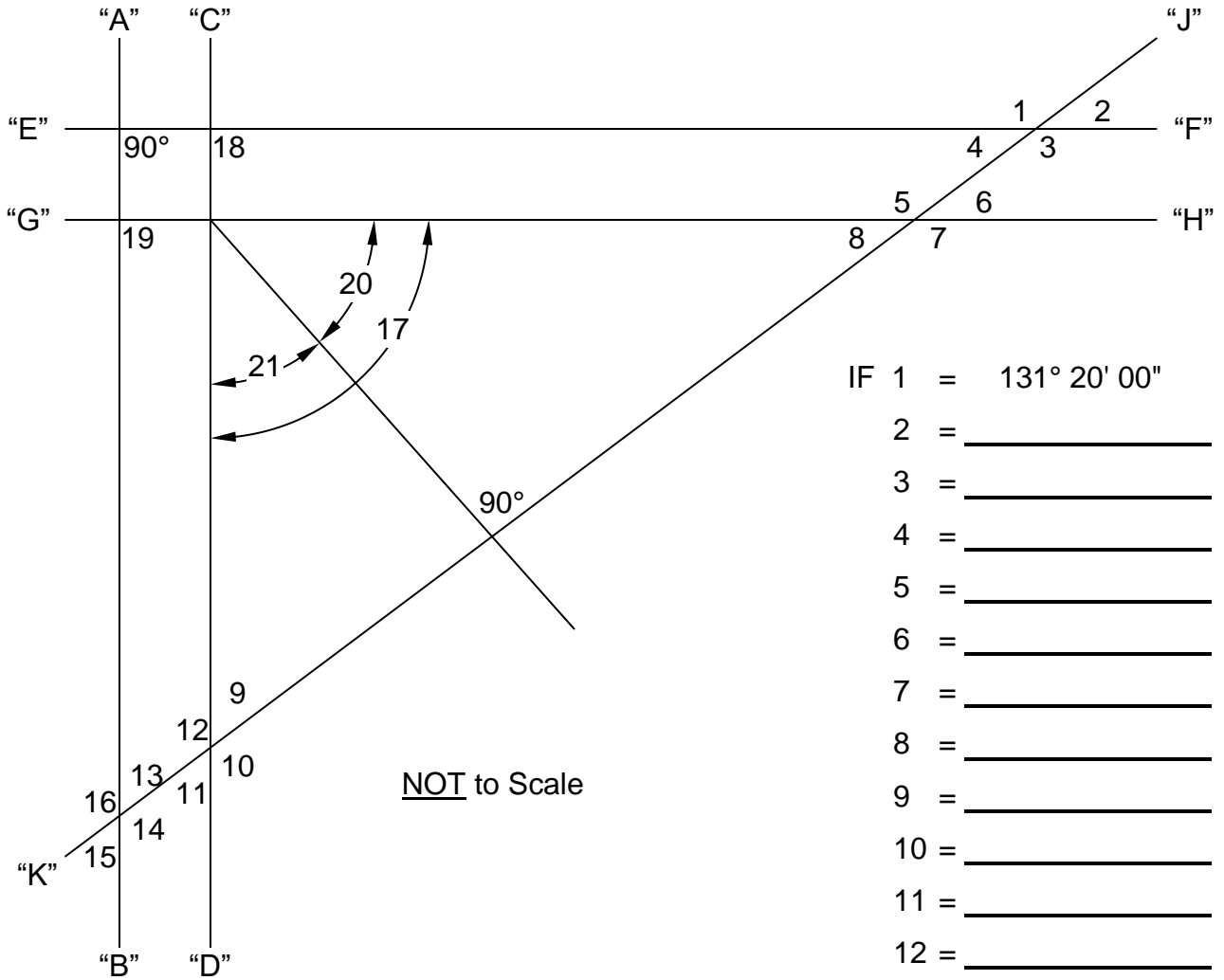
error = \_\_\_\_\_

Polygon #6

103° 34' 19"  
211° 42' 57"  
143° 12' 39"  
68° 55' 28"  
199° 40' 41"  
101° 18' 45"  
125° 50' 47"  
126° 27' 08"  
179° 59' 49"  
89° 50' 44"  
145° 00' 54"  
196° 28' 28"  
267° 05' 35"  
200° 59' 58"

error = \_\_\_\_\_

Lines A-B and C-D are parallel.  
Lines E-F and G-H are parallel.



NOT to Scale

IF 1 =  $131^\circ 20' 00''$

2 = \_\_\_\_\_

3 = \_\_\_\_\_

4 = \_\_\_\_\_

5 = \_\_\_\_\_

6 = \_\_\_\_\_

7 = \_\_\_\_\_

8 = \_\_\_\_\_

9 = \_\_\_\_\_

10 = \_\_\_\_\_

11 = \_\_\_\_\_

12 = \_\_\_\_\_

13 = \_\_\_\_\_

14 = \_\_\_\_\_

15 = \_\_\_\_\_

16 = \_\_\_\_\_

17 = \_\_\_\_\_

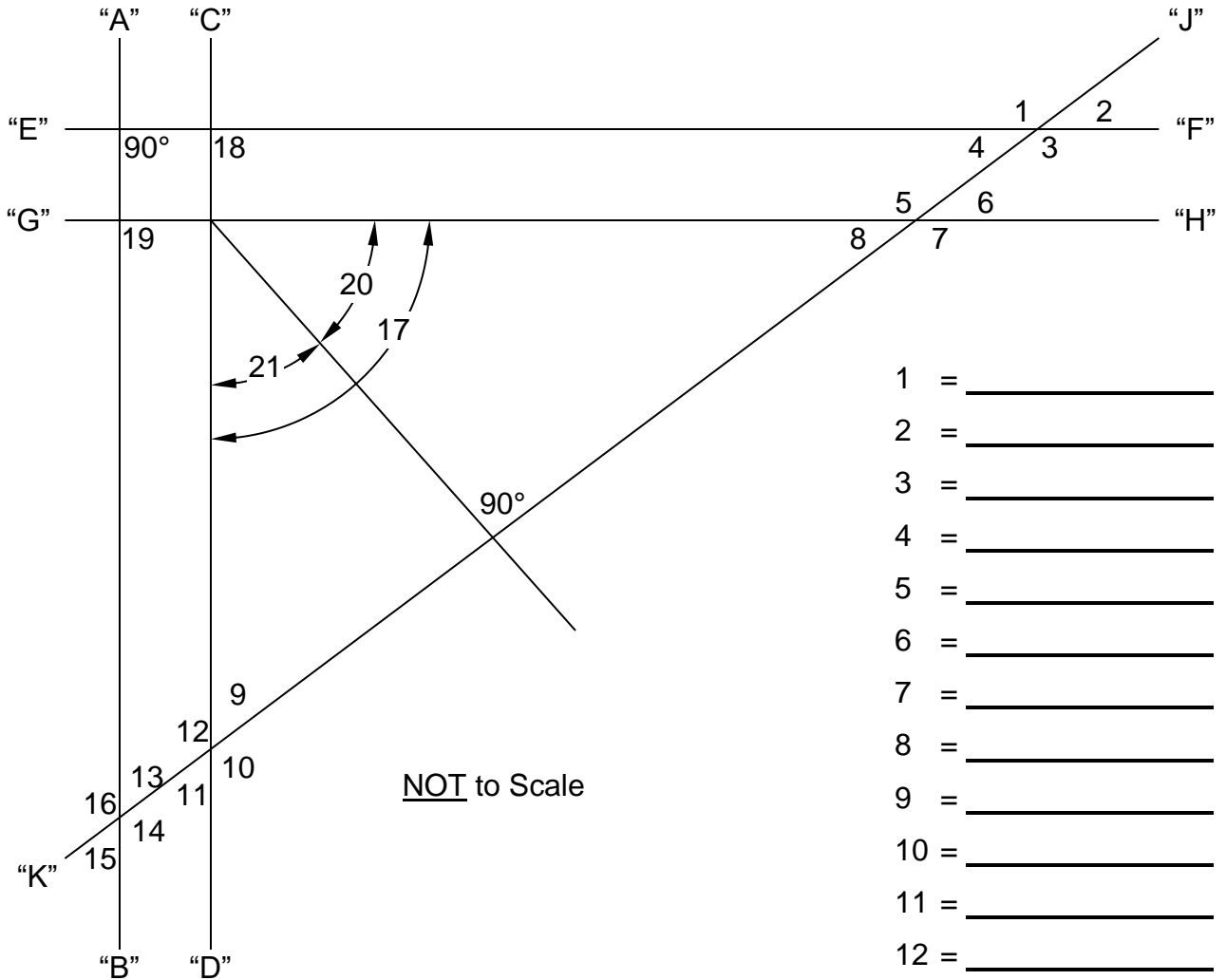
18 = \_\_\_\_\_

19 = \_\_\_\_\_

20 = \_\_\_\_\_

21 = \_\_\_\_\_

Lines A-B and C-D are parallel.  
Lines E-F and G-H are parallel.



- 1 = \_\_\_\_\_
- 2 = \_\_\_\_\_
- 3 = \_\_\_\_\_
- 4 = \_\_\_\_\_
- 5 = \_\_\_\_\_
- 6 = \_\_\_\_\_
- 7 = \_\_\_\_\_
- 8 = \_\_\_\_\_
- 9 = \_\_\_\_\_
- 10 = \_\_\_\_\_
- 11 = \_\_\_\_\_
- 12 = \_\_\_\_\_
- 13 = \_\_\_\_\_
- 14 = \_\_\_\_\_
- IF 15 = 55° 30' 10"
- 16 = \_\_\_\_\_
- 17 = \_\_\_\_\_
- 18 = \_\_\_\_\_
- 19 = \_\_\_\_\_
- 20 = \_\_\_\_\_
- 21 = \_\_\_\_\_