Directions: Please complete each section and then check your answers. Then, self-assess your understanding of each target using a 1 to 5 scale, where 1 is Not Good, 3 is Okay..., and 5 is 1 Got This!!! If you are not a 5, please retry other problems from that section and seek out help!

#### 3.1 Lines and Angles

Learning Target 3.1: Name a transversal and classify each pair of angles.

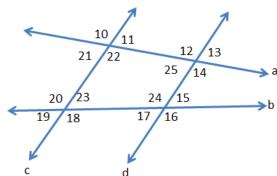
1 2 3 4 5

## For #1-6, give an example of each type of angle pair:

- 1) Corresponding Angles: <u>41,43+42,44+25,47+46,48</u>
- 2) Alternate Interior Angles: 2 + 2 + 2 + 2 = 2
- 3) Same Side Interior Angles:  $\angle 2, \angle 3 + \angle 6, \angle 7$
- 4) Alternate Exterior Angles:  $\frac{21,28+24,25}{5}$
- 5) Vertical Angles: 21,16+12,15+13,18+14,1
- 6) Linear Pair Angles: 21,12+12,16+16,15+15,11



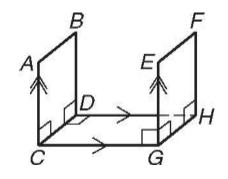
## For #7-10, answer the following using the diagram on the right.



- 7) What type of angles are 21 and 23 <u>Olt・Int. </u> しち
- 8) What type of angles are 11 and 18 Same Side ext L's
- 9) What type of angles are 25 and 21 <u>Corr L'S</u>
- 10) What type of angles are 19 and 16 Same Side extlis

# For #11-13 answer the following using the diagram on the right.

- 11) Identify a pair of parallel segments \_\_\_\_\_
- 12) Identify a pair of skew segments \_\_\_\_\_
- 13) Identify a pair of perpendicular segments \_\_\_\_\_

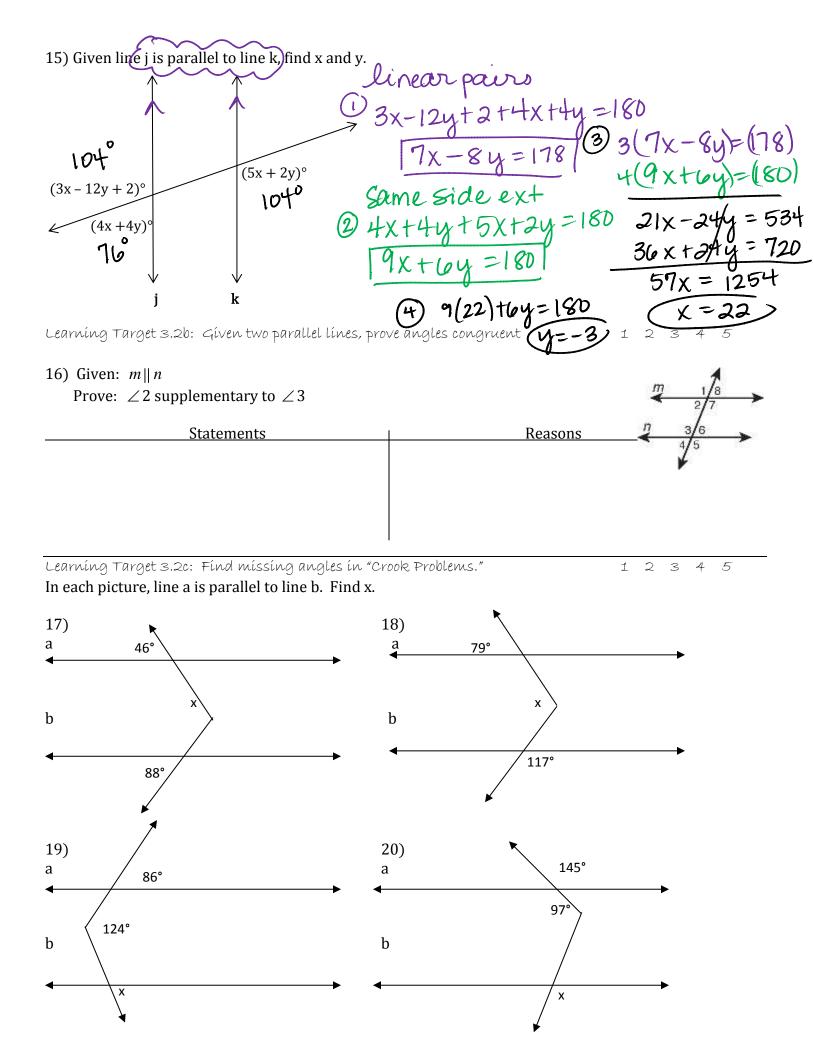


### 3.2 Given Parallel Lines

Learning Target 3.2a: Given two parallel lines, find an angle measure.

1 2 3 4 5

14) Given j is parallel to k, find...

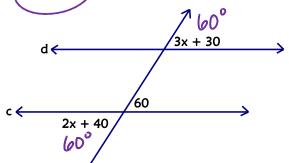


#### 3.3 Prove Parallel Lines

Learning Target 3.3a: Prove lines are parallel algebraically.

1 2 3 4 5

21) Is  $c \parallel d$ ? Show all of your work to justify your answer. Explain why or why not.



\*Since we are not sure, we cannot use "5 Key words"... can only use V.A. or Linear Pair

2x + 40 = 602x = 20

Yes... 1) If corr L's = X=10 2) If alt. ext L's = -> 11 lines.

Learning Target 3.3b: Prove lines are parallel in a two-column proof. 1 2 3 4 5

22) Given:  $\angle 8$  supplementary to  $\angle 3$ 

Prove:  $m \parallel n$ 

Statements
Reasons

P 3/6
4/5