

Special Angle Pairs

From Chapter 1:

<u>Pairs</u>	<u>Relation</u>	<u>Equation</u>	<u>Description</u>
Vertical	Congruent	$\angle = \angle$	Opposite sides of the x
Linear pair	Supplementary	$\angle + \angle = 180$	Forms 1 line (y)

Supplementary: Big + Little = 180

Congruent: Big=Big or Little = Little

From Chapter 3:

<u>Pairs</u>	<u>Relation</u>	<u>Equation</u>	<u>Description</u>
Alternate Interior	Congruent	$\angle = \angle$	Opposite, both interior
Alternate Exterior	Congruent	$\angle = \angle$	Opposite, both exterior

Alternate = Opposite sides of the transversal

Corresponding	Congruent	$\angle = \angle$	Same side, one each (I/E)
Consecutive Interior	Supplementary	$\angle + \angle = 180$	Same side, both interior

“C” = Same side of the transversal

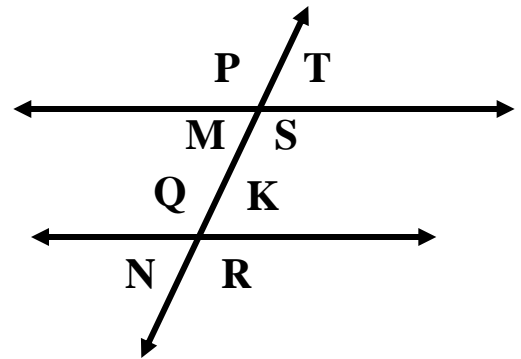
Find all angle pairs in the following diagram:

Vertical Angles:

P and S, M and T
Q and R, K and N

Linear Pairs:

P and T, M and P, M and S, T and S
Q and K, K and R, Q and N, R and N



Alternate Interior

M and K, Q and S

Alternate Exterior

P and R, T and N

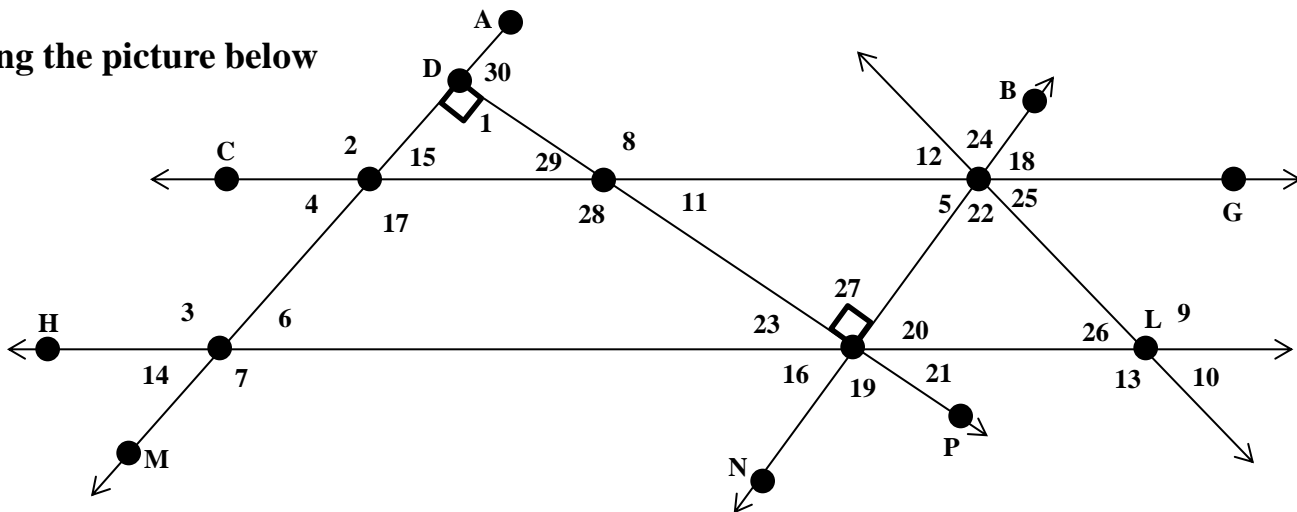
Corresponding

P and Q, T and K
M and N, S and R

Consecutive Interior

M and Q, K and S

Using the picture below



AM is parallel to BN and CG is parallel to HL

∠	Reason	∠	∠	Reason	∠
1	Alternate interior with angle	_____	16	Corresponding angle with angle	_____
2	Alternate exterior with angle	_____	17	Consecutive interior with angle	_____
3	Consecutive interior with angle	_____	18	Corresponding with angle	_____
4	Corresponding with angle	_____	19	Vertical with angle	_____
5	Alternate interior with angle	_____	20	Alternate interior with angle	_____
6	Corresponding with angle	_____	21	Consecutive exterior with angle	_____
7	Consecutive exterior with angle	_____	22	Vertical with angle	_____
8	Linear pair with angle	_____	23	Corresponding with angle	_____
9	Consecutive interior with angle	_____	24	Vertical with angle	_____
10	Corresponding with angle	_____	25	Alternate interior with angle	_____
11	Alternate interior with angle	_____	26	Corresponding with angle	_____
12	Alternate Exterior with angle	_____	27	Vertical with angle	_____
13	Consecutive exterior with angle	_____	28	Consecutive interior with angle	_____
14	Alternate exterior with angle	_____	29	Corresponding with angle	_____
15	Corresponding with angle	_____	30	Linear Pair with angle	_____