REVIEW: Proofs & Angles and Parallel Lines/Transversals

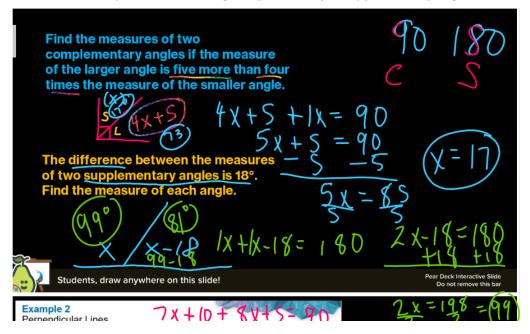
Tuesday, October 28, 2025 9:20 PM

STUDY VOCAB FOLDER MODULE 2 & 3. STUDY NOTES 2.1/2.2 AND 3.7

STUDY FROM YOUR JOURNAL ENTRIES 6,7, AND 8.

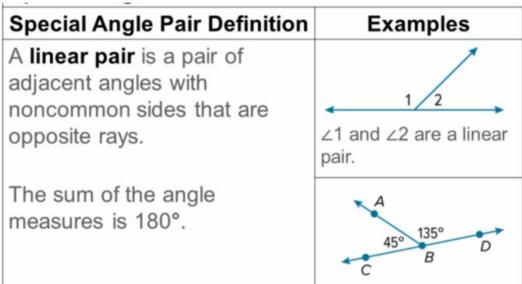
MAKE SURE YOU COMPLETED THE FOLLOWING: MCGRAW HILL PROOFS & PARALLEL LINES/TRANSVERSALS HW, TEAMS PROOFS/ANGLES QUIZ *honestly did your best!

Know your angles: Complementary 90 Supplementary 180 How to solve problems involving complementary & supplementary angles.



Know what adjacent angles and linear pair angles are:

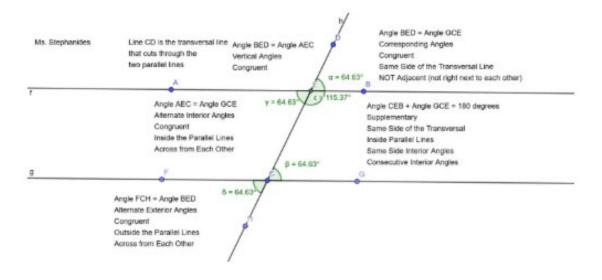
Special Angle Pair Definition Adjacent angles are two angles that lie in the same plane, have a common vertex and a common side, but have no common interior points. Examples Light Exampl

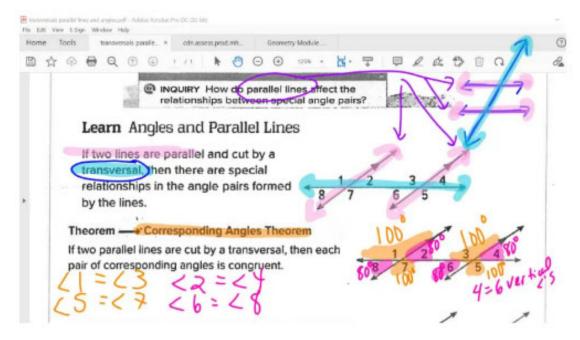


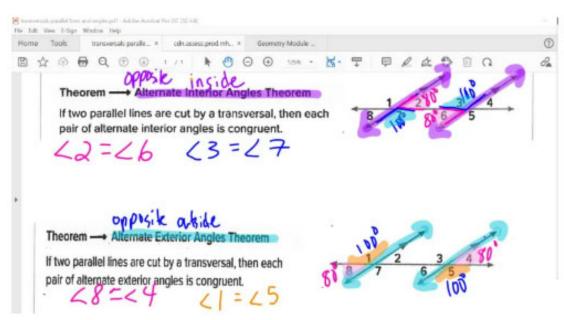
Know all the properties and names of angles created by parallel lines and transversals. Know how to solve the angle degrees with algebraic expressions whether to set them up to equal each other or add up to be supplementary (=180 degrees) *the consecutive/same side interior angles.

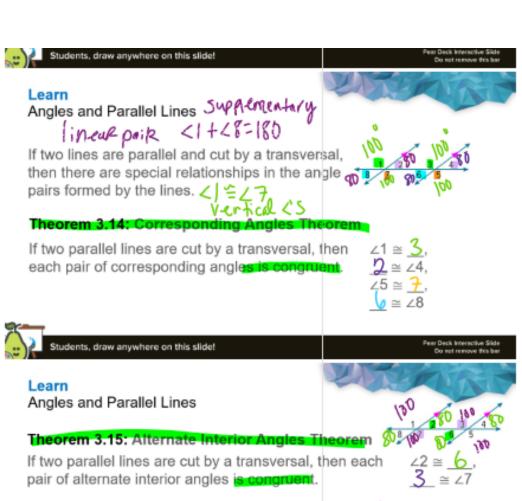
Also know how to find all eight angle degrees given one angle (for example if angle 1 in the picture below is 42 degrees find all of the angle degrees!)

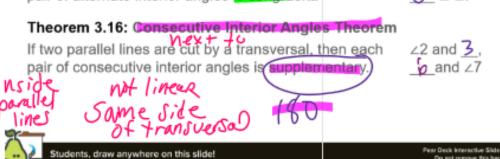
^{*}Know that a linear pair is also considered supplementary and called a "straight angle" = 180 which also happens to be adjacent angles.

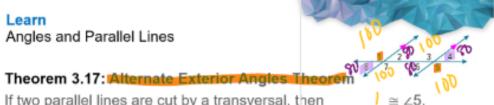








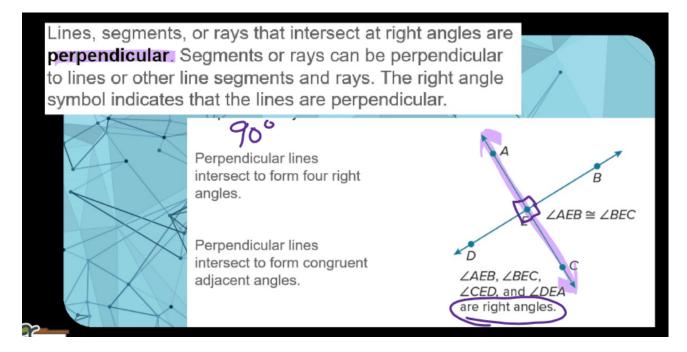




Vertical angles are the two nonadjacent angles formed by two intersecting lines.

Vertical angles are congruent.

Vertical angles are congruent.



^{*}KNOW HOW TO NAME AN ANGLE (3 POINTS WITH THE VERTEX AS THE MIDDLE POINT) SEE EXAMPLES ABOVE.

Know whether lines are skew, intersecting, or parallel (same with planes)



Example 1

Identify Parallel and Skew Relationships

Identify each of the following using the cube shown. Assume lines and planes that appear to be parallel or perpendicular are parallel or perpendicular, respectively. a. one line skew to BC 2 letters to shame a line AF

b. two lines parallel to EH

c. one plane parallel to plane DCH

3 prints to name a plane



PROOFS:

Know that all proofs start with what is "given" and the last statement is what they are asking you to "prove"

Know your Properties: addition, subtraction, division, distributive, transitive, symmetric, substitution, definition of congruence, angle addition property, midpoint theorem