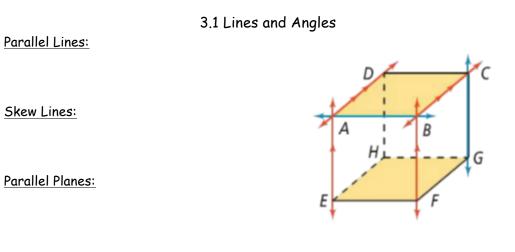
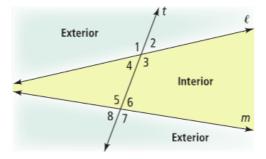
NAME:_



<u>Transversal:</u>

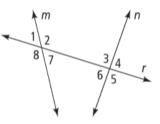


Alternate Interior Angles:

Same-side Interior Angles:

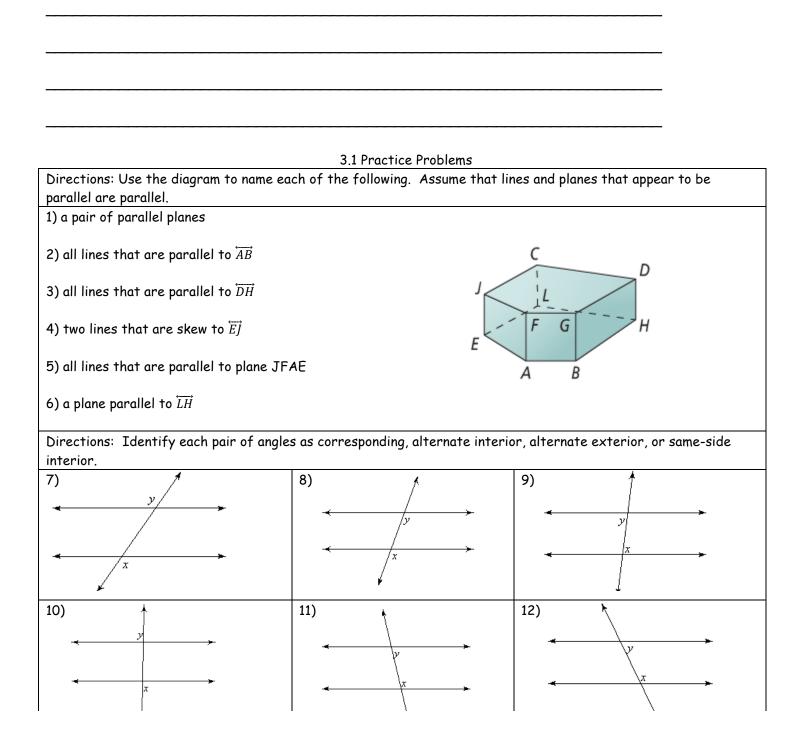
Corresponding Angles:

Alternate Exterior Angles:



TRY THESE: Draw the picture and answer the questions.

Summary:

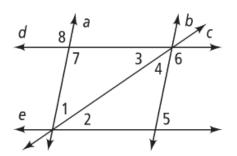


Directions: Identify all pairs of each type of angles in the diagram. Name the two lines and the transversal that form each pair.

13) corresponding angles

14) alternate interior angles

15) alternate exterior angles



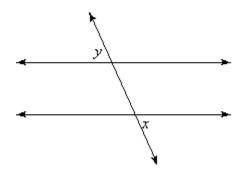
16) same-side interior angles

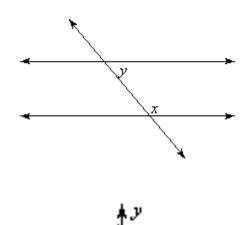
17) Two parallel lines are coplanar	18) Two skew lines are coplanar
19) Two planes that do not intersect are parallel	20) Two lines in intersecting planes are skew
21) A line and a plane that do not intersect are skew	22) Alternate interior angles are on the same side of a transversal

Algebra Review

Solve: $-4 = \frac{x}{5} - 8$	Solve: 4x + 3 = 17	Factor: $k^2 + 7k - 30$
Factor: $-7x^7 - 28x^2 + 42x$	Graph: $y = -\frac{5}{2}x - 2$	Graph: $y = \frac{5}{2}x - 4$
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1) What type of angles are these?





2) What type of angles are these?

3) Graph the lines y = x -1 and y = x + 2.
4) What type of relationship is there between the two lines?
5) Prove your answer to #4.
6) Graph the equation y = 1 on the coordinate plane.
7) What line is a transversal in the graph?
8) Label all the angles formed by the transversal on the graph.
9) What pairs of angles are alternate interior angles?

10) Using a protractor, measure one pair of alternate interior angles. What do they measure?

11) Based on your evidence in #9 and #10 what do you think might be true about alternate interior angles when the transversal crosses parallel lines? Test it out on another pair of alternate interior angles. Does it work?

12) What pairs of angles are same-side interior angles?

13) Using a protractor, measure one pair of same-side interior angles. What do they measure?

14) Bases on your evidence in #12 and #13, what do you think might be true about same-side interior angles when the transversal crosses parallel lines? Test it out on another pair of same-side interior angles. Does it work?

