
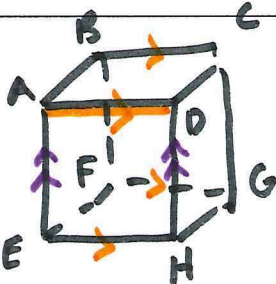
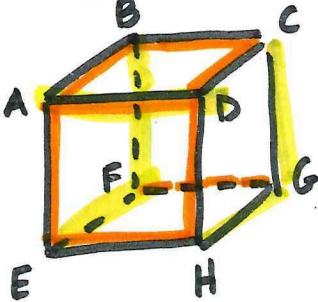
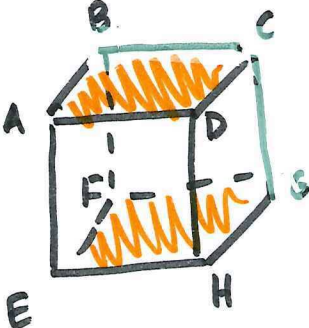

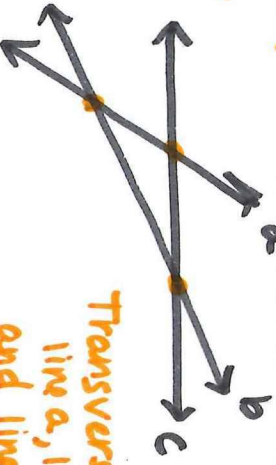
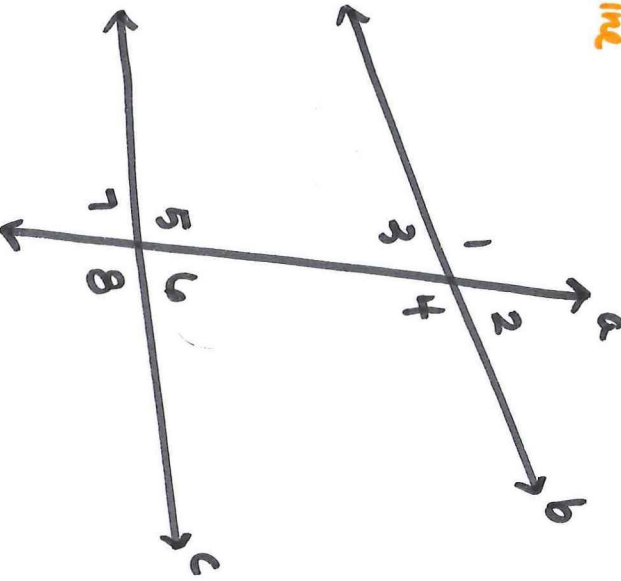
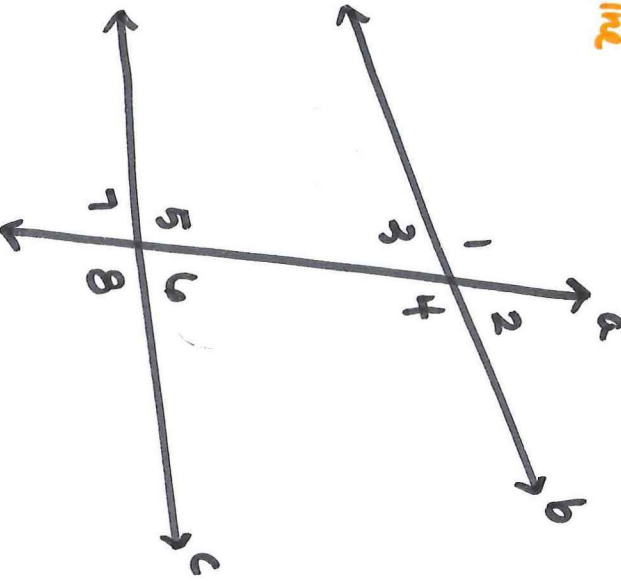
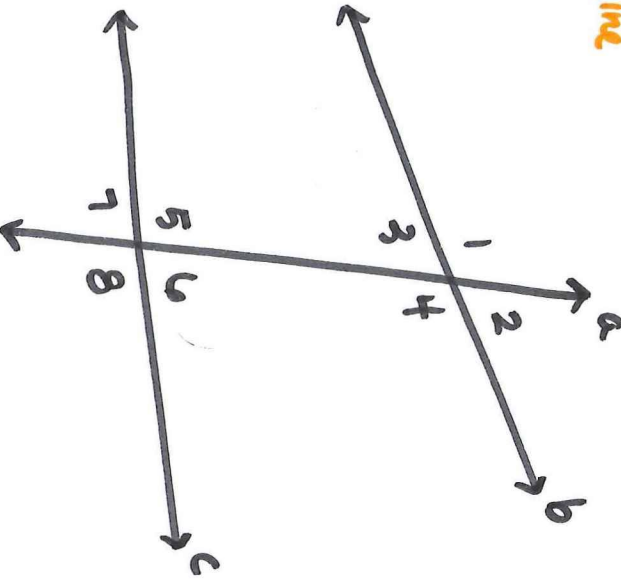


Identify Pairs of Lines and Angles

| Vocabulary | Definition | Picture | |
|---------------------------------|--|--|--|
| <p>PARALLEL LINES</p> <p>//</p> | <p>Two lines are parallel lines if they <u>do not intersect</u> and are <u>coplanar</u>.</p> |  <p>line a // line b</p> <p>$a // b$</p> |  <p>$\overleftrightarrow{AD} // \overleftrightarrow{EH}, \overleftrightarrow{BC}, \overleftrightarrow{FG}$</p> |
| <p>SKEW LINES</p> | <p>Two lines are skew lines if they <u>do not intersect</u> and are <u>not coplanar</u>.</p> |  <p>What lines are skew to \overleftrightarrow{AD}?</p> <p>$\overleftrightarrow{BF}, \overleftrightarrow{CG}, \overleftrightarrow{EF}, \overleftrightarrow{GH}$</p> <p>* \overleftrightarrow{AD} is coplanar w/ all the orange lines</p> | |
| <p>PARALLEL PLANES</p> | <p>Two planes that do not intersect are parallel planes.</p> |  <p>Plane ADB // Plane EFG</p> | |

LOCATION OF THE ANGLES

| | | | |
|--|---|---|--|
| <p>TRANSVERSAL</p> | <p>A transversal is a line that intersects two or more coplanar lines at different points.</p> |  | <p>Transversal line a, line b, and line c</p>  |
| <p>CORRESPONDING ANGLES CA</p> | <p>* one interior angle and one exterior angle Two angles are corresponding angles if they have <u>same position</u>.</p> | <p>$\angle 1$ and $\angle 5$ left above $\angle 2$ and $\angle 6$, $\angle 3$ and $\angle 7$ right above transversal intersected line</p> |  |
| <p>ALTERNATE INTERIOR ANGLES AI</p> | <p>Two angles are alternate interior angles if they lie between the two lines and on <u>opposite sides</u> of the transversal.</p> | <p>$\angle 3$ and $\angle 4$ left right $\angle 2$ and $\angle 7$ right left</p> |  |
| <p>ALTERNATE EXTERIOR ANGLES AE</p> | <p>Two angles are alternate exterior angles if they lie outside the two lines and on <u>opposite sides</u> of the transversal.</p> | <p>$\angle 1$ and $\angle 8$ left right $\angle 2$ and $\angle 7$ right left</p> |  |
| <p>CONSECUTIVE INTERIOR ANGLES CI</p> | <p>Two angles are consecutive interior angles if they lie between the two lines and on the <u>same side</u> of the transversal.</p> | <p>$\angle 3$ and $\angle 5$ left left $\angle 4$ and $\angle 6$ right right</p> | <p>Interior Angles: $\angle 3, \angle 4, \angle 5, \angle 6$ Exterior Angles: $\angle 1, \angle 2, \angle 7, \angle 8$</p> |

same-side interior angles **SSI**

above/below
left/right
left/left...
above/below...