

Angle Relationships: Notes Justifications

Justification: Vertical angles are congruent!



1. Name the vertical angles which are congruent.

2. What is an angle bisector? Cuts on ongle into 2 = parts

50°

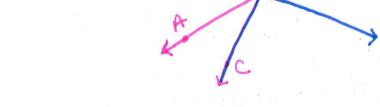
If \overrightarrow{CB} is an angle bisector, state what is true about the figure. **Justification:** Definition of Angle Bisector

<ACB ≅ < DCB def of </pre>
50° = < DCB bisector

3. Use the same figure, but DO NOT assume Ray CB is an angle bisector: If $m < ACB = 64^{\circ}$ and $m < BCD = 33^{\circ}$ find the m < ACD.

Justification: Angle Addition

4. Adjacent angles are angles which share a common vertex and a common side, we commonly say angles next to each other. Draw an adjacent angle to \overline{ABC} , which shares vertex B and side \overline{BC} .



5. Straight Angle measures ______. Draw an example of straight angle <NJB. ______. Justification: Definition of straight angle.



6. Justification: Definition of Supplementary



80. B

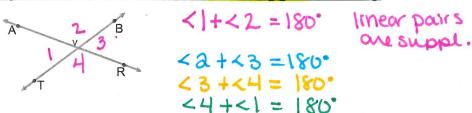
<A+<B=180°

def ob

suppl

7. Linear Pairs

Justification: Linear Pairs are Supplementary

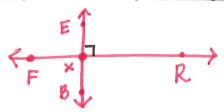


8. Justification: Angle Addition (Straight angle)



9. Draw $\overrightarrow{FR} \perp \overrightarrow{EB}$ which intersect at X.

Justification: Definition of Perpendicular



Perpendicular

10. Draw < HGT as a right angle.

Justification: Definition of Right Angle



Draw < HGT as a right angle.

Justification: Definition of complementary

