

4-27-18

Aim: SWBAT find missing angle measurements and justify a reason for each.

HW: Pg. 406 - 407 # 1-9, 14-15, 21 - 23
Quiz Monday (Angle Relationships)

Do Now: Review Worksheet

Which angles are across from each other?

Vertical Adjacent

Which angles are next to each other?

Vertical Adjacent

Which angles are always the same measures?

Vertical Adjacent

Which type of angle relationship totals to 90 degrees?

Vertical Adjacent Complementary Supplementary

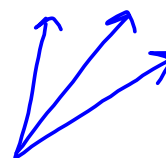
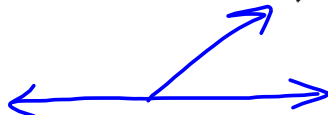
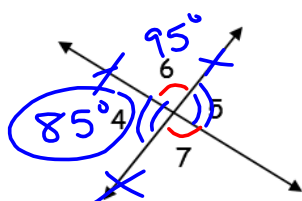
Which type of angle relationship totals to 180 degrees?

Vertical Adjacent Complementary Supplementary

Are adjacent angles always complementary or supplementary? Yes

No

Use the following diagram to answer the next set of questions.



Name 2 pairs of vertical angles. $\angle 6$ & $\angle 7$; $\angle 4$ & $\angle 5$

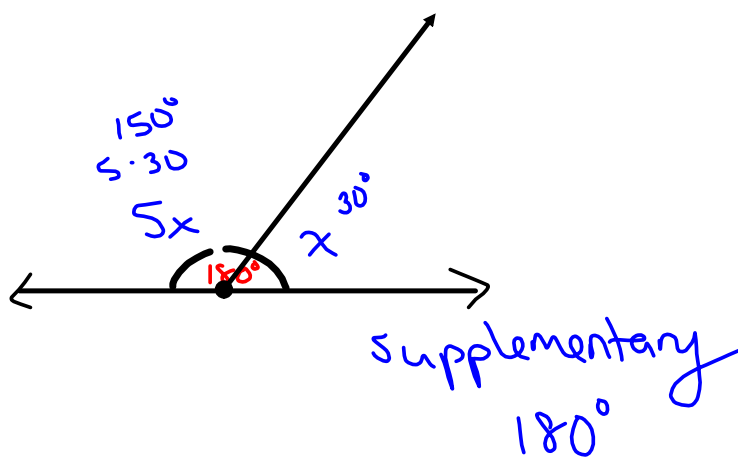
Name 4 pairs of adjacent angles. $\angle 6$ & $\angle 5$; $\angle 5$ & $\angle 7$; $\angle 4$ & $\angle 7$; $\angle 4$ & $\angle 6$

Name 4 pairs of supplementary angles. $\angle 6$ & $\angle 5$; $\angle 5$ & $\angle 7$; $\angle 4$ & $\angle 7$; $\angle 4$ & $\angle 6$

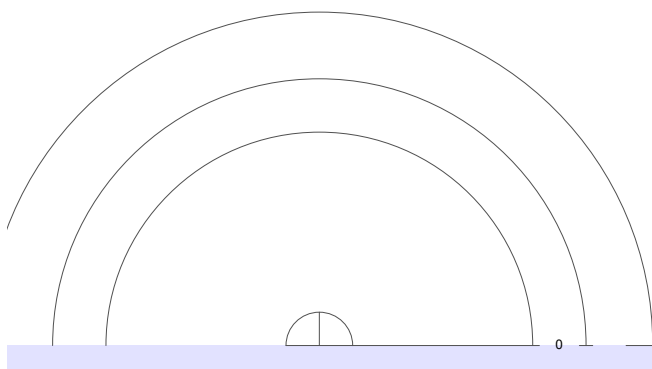
If $m\angle 4 = 85^\circ$, what is the measure of $\angle 6$? Why? 95° Supp.

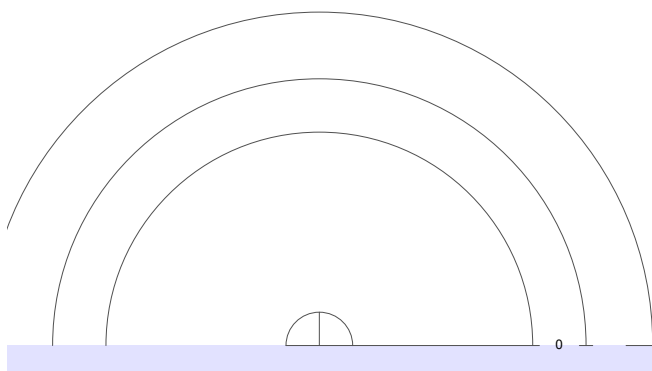
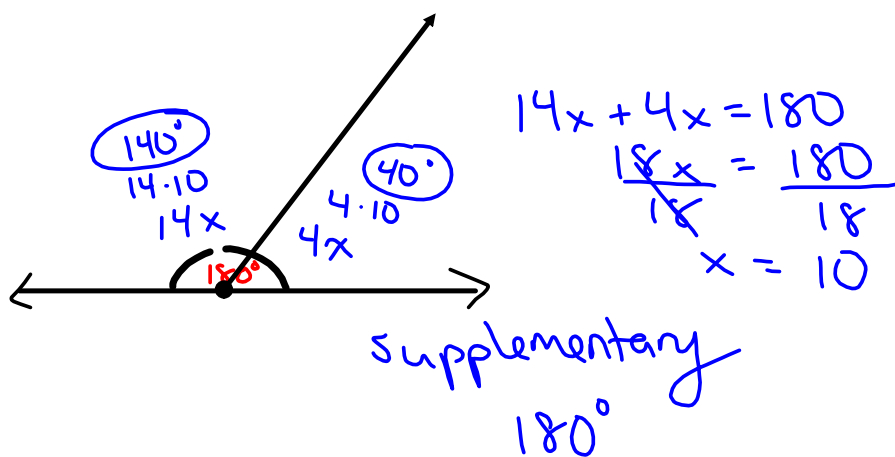
If $m\angle 4 = 85^\circ$, what is the measure of $\angle 7$? Why? 95° Supp.

If $m\angle 4 = 85^\circ$, what is the measure of $\angle 5$? Why? 85° vertical



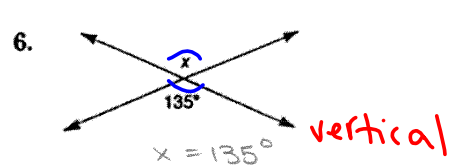
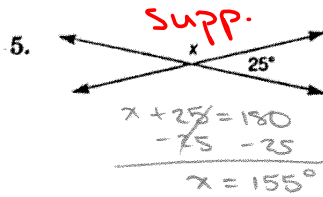
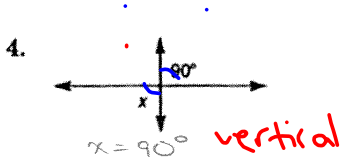
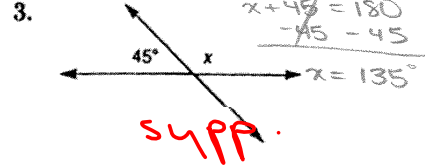
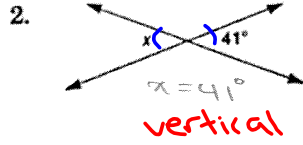
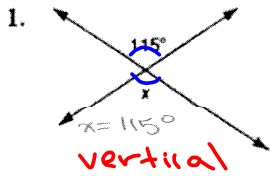
$$5x + x = 180$$
$$\frac{6x}{6} = \frac{180}{6}$$
$$x = 30$$





Angle Relationships

Find the value of x in each figure.



Each of the following pairs of angles is either complementary or supplementary. Find the measure of each angle. 90°

