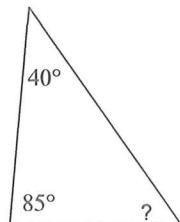


# Line + Angle Relationships Homework Key

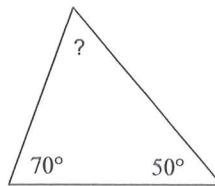
Find the measure of each angle indicated.

1)



$$\begin{aligned} 85 + 40 + x &= 180 \\ 125 + x &= 180 \\ x &= 55^\circ \end{aligned}$$

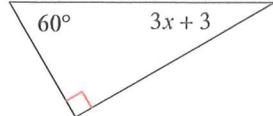
2)



$$\begin{aligned} 70 + x + 50 &= 180 \\ x + 120 &= 180 \\ x &= 60^\circ \end{aligned}$$

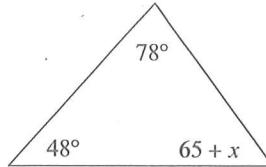
Solve for  $x$ .

3)



$$\begin{aligned} 90 + 60 + 3x + 3 &= 180 \\ 3x + 153 &= 180 \\ 3x &= 27 \\ x &= 9 \end{aligned}$$

4)



$$\begin{aligned} 48 + 78 + 65 + x &= 180 \\ 191 + x &= 180 \\ x &= -11 \end{aligned}$$

Name: Key

### Simplifying Radicals Review

$$1. \sqrt{12}$$

$$2\sqrt{3}$$

$$2. \sqrt{24}$$

$$2\sqrt{6}$$

$$3. \sqrt{54}$$

$$3\sqrt{6}$$

$$4. \sqrt{18}$$

$$3\sqrt{2}$$

$$5. \sqrt{48}$$

$$4\sqrt{3}$$

$$6. \sqrt{28}$$

$$2\sqrt{7}$$

$$7. \sqrt{50}$$

$$5\sqrt{2}$$

$$8. \sqrt{80}$$

$$4\sqrt{5}$$

$$9. \sqrt{45}$$

$$3\sqrt{5}$$

$$10. \sqrt{75}$$

$$5\sqrt{3}$$

$$11. \sqrt{72}$$

$$6\sqrt{2}$$

$$12. \sqrt{63}$$

$$3\sqrt{7}$$

$$13. \sqrt{300}$$

$$10\sqrt{3}$$

$$14. \sqrt{125}$$

$$5\sqrt{5}$$

$$15. \sqrt{200}$$

$$10\sqrt{2}$$

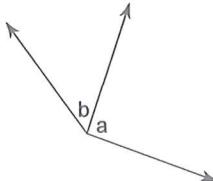
$$16. \sqrt{32}$$

$$4\sqrt{2}$$

## Vocab Practice #1

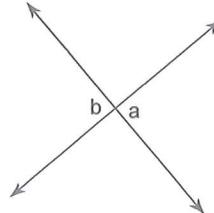
Identify each pair of angles as adjacent, vertical, complementary, supplementary, or a linear pair. Include all terms that apply.

1)



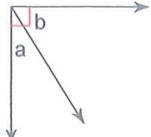
adjacent

2)

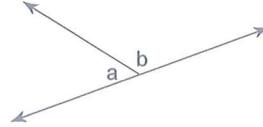


vertical

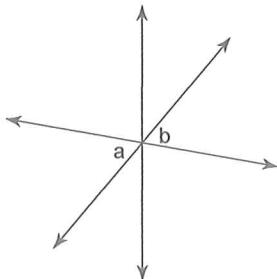
3)

Complementary  
adjacent

4)

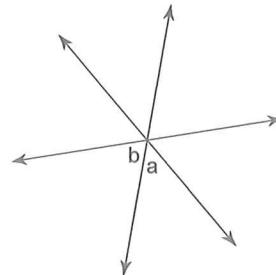
Supplementary  
adjacent  
Linear pair

5)



vertical

6)



adjacent

# The Pythagorean Theorem Day 1 (2nd Hour)

Name: Key Per: \_\_\_\_\_ Date: \_\_\_\_\_

Find the length of the missing side in the following examples. Leave your answers in exact square roots. Solve these problems without a calculator. Show work please.

