

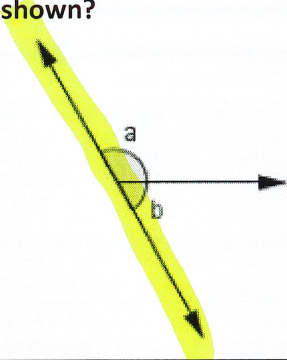
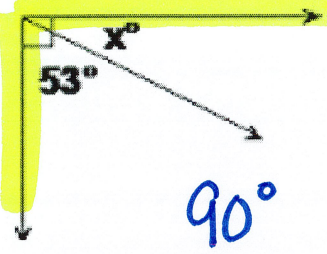
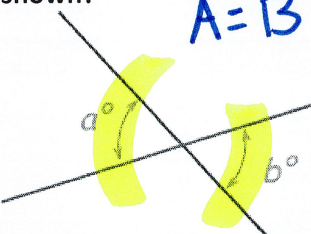
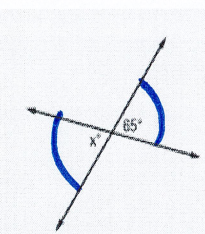
NAME: Answer Key

PERIOD: _____ DATE: _____

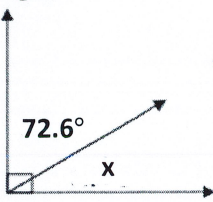
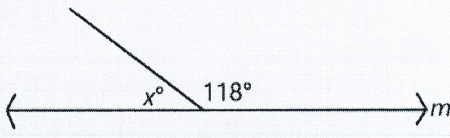
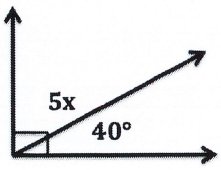
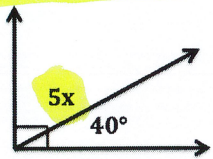
Geometry Part 3A Study Guide – Math 6A

PART A

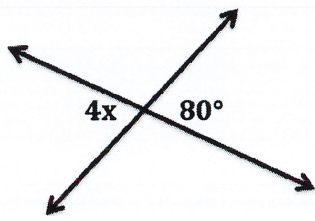
PART 1 (Multiple Choice): Circle the correct answer.

<p>1. What is the classification of the pair of angles shown?</p>  <p>A.) supplementary B.) vertical C.) complementary</p> <p>180°</p>	<p>2. What is the classification of the pair of angles shown?</p>  <p>A.) supplementary B.) vertical C.) complementary</p> <p>90°</p>
<p>3. What is the classification of the pair of angles shown?</p>  <p>A.) supplementary B.) vertical C.) complementary</p> <p>$A = B$</p>	<p>4. What is the measure of angle X?</p>  <p>A.) 115 degrees B.) 65 degrees C.) 90 degrees D.) 180 degrees</p> <p>$A = B$</p>

PART 2 (Short Answer): Show all work.

<p>5. Set up & solve an equation to find the measure of angle x.</p>  <p>$72.6 + x = 90$ $-72.6 \quad -72.6$ $x = 17.4$</p> <p>measure of angle x = <u>17.4</u> degrees</p>	<p>6. Set up & solve an equation to find the measure of angle m.</p>  <p>$118 + x = 180$ $-118 \quad -118$ $x = 62$</p> <p>measure of angle m = <u>62</u> degrees</p>
<p>7. Set up & solve an equation to find the value of x.</p>  <p>$5x + 40 = 90$ $-40 \quad -40$ $\frac{5x}{5} = \frac{50}{5}$</p> <p>$x = 10$</p>	<p>8. Use your answer from question 7 to find the measure of the missing angle. Show your work.</p>  <p>$5x$ $5(10)$ 50</p> <p><u>50</u> degrees</p>

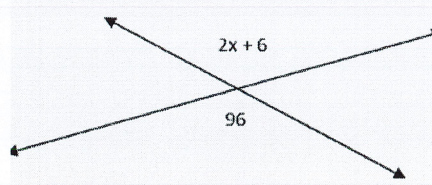
9. Set up & solve an equation to find the value of x.



$$\begin{aligned} 4x &= 80 \\ \frac{4x}{4} &= \frac{80}{4} \\ x &= 20 \end{aligned}$$

x = 20

10. Set up & solve an equation to find the value of x.

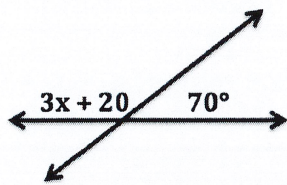


$$\begin{aligned} 2x + 6 &= 96 \\ -6 & \quad -6 \\ \hline 2x &= 90 \\ \frac{2x}{2} &= \frac{90}{2} \end{aligned}$$

x = 45

x = 45

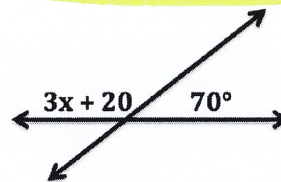
11. Set up & solve an equation to find the value of x.



$$\begin{aligned} 3x + 20 + 70 &= 180 \\ 3x + 90 &= 180 \\ -90 & \quad -90 \\ \hline 3x &= 90 \\ \frac{3x}{3} &= \frac{90}{3} \\ x &= 30 \end{aligned}$$

x = 30

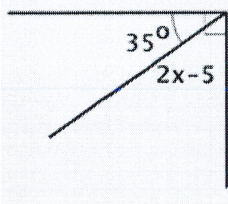
12. Use your answer from question 11 to find the measure of the missing angle. Show your work.



$$\begin{aligned} 3x + 20 \\ 3(30) + 20 \\ 90 + 20 \end{aligned}$$

110 degrees

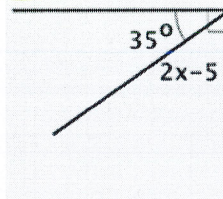
13. Set up & solve an equation to find the value of x.



$$\begin{aligned} 35 + 2x - 5 &= 90 \\ 30 + 2x &= 90 \\ -30 & \quad -30 \\ \hline 2x &= 60 \\ \frac{2x}{2} &= \frac{60}{2} \\ x &= 30 \end{aligned}$$

x = 30

14. Use your answer from question 13 to find the measure of the missing angle. Show your work.



$$\begin{aligned} 2x - 5 \\ 2(30) - 5 \\ 60 - 5 \\ 55 \end{aligned}$$

55 degrees