

7.G.5: Worksheet

Solutions

1. Write an equation for an angle x that's supplementary to a 47° angle. What is x ? $x + 47 = 180$, so $x = 133$
2. Write an equation for two angles, x and y , that are complementary. $x + y = 90$
3. A pair of adjacent angles form a 126° angle together. If one of them is 66° , set up and solve an equation to find the other. $x + 66 = 126$, so $x = 60$
4. What angle is complementary to 30.5° ? 59.5°
5. What angle is supplementary to 174.2° ? 5.8°
6. Write and solve an equation to find angle x . $46 + x + 74 = 180$, so $x = 60$
7. What is the measure of angle y ? 74°
8. What is the measure of angle z ? 60°

Use the following figure to answer questions 9-10.

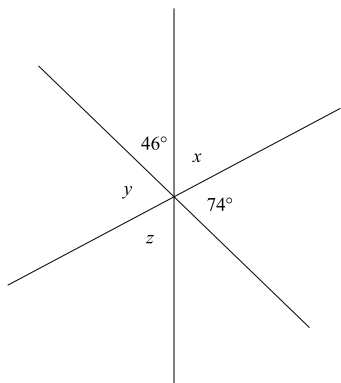


Figure 1.

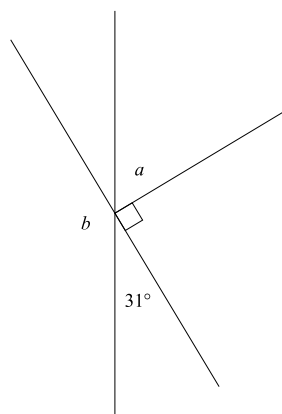


Figure 2.

9. What's the measure of angle a ? 59°
10. What's the measure of angle b ? 149°