SYSTEMS ANGLE PROBLEMS

1. If one complementary angle is 4 more than the other, what is the size of each angle? $x + y = 90, x = y + 4$

2. If one complementary angle is 12 less than the other angle, what is the size of each of the angles? $x + y = 90, x = y - 12$

3. If one complementary angle is 3 times the second angle, what is the size of the two angles? $x + y = 90, x = 3y$

4. If one complementary angle is 2 more than three times the second angle, what is the size of the two angles? $x + y = 90, x = 3y + 2$

5. If five times one complementary angle is 2 less than three times the other, what is the size of the two angles? $x + y = 90, 5x = 3y - 2$

6. If one supplementary angle is 12 more than the other, what is the size of each angle? $x + y = 180, x = y + 12$

7. If one supplementary angle is 34 less than the other angle, what is the size of each of the angles? $x + y = 180, x = y - 34$

8. If one supplementary angle is 8 times the second angle, what is the size of the two angles? $x + y = 180, x = 8y$

9. If one supplementary angle is 12 more than six times the second angle, what is the size of the two angles? $x + y = 180, x = 6y + 12$

10. If four times one supplementary angle is 10 less than two times the other, what is the size of the two angles? $x + y = 180, 4x = 2y - 10$