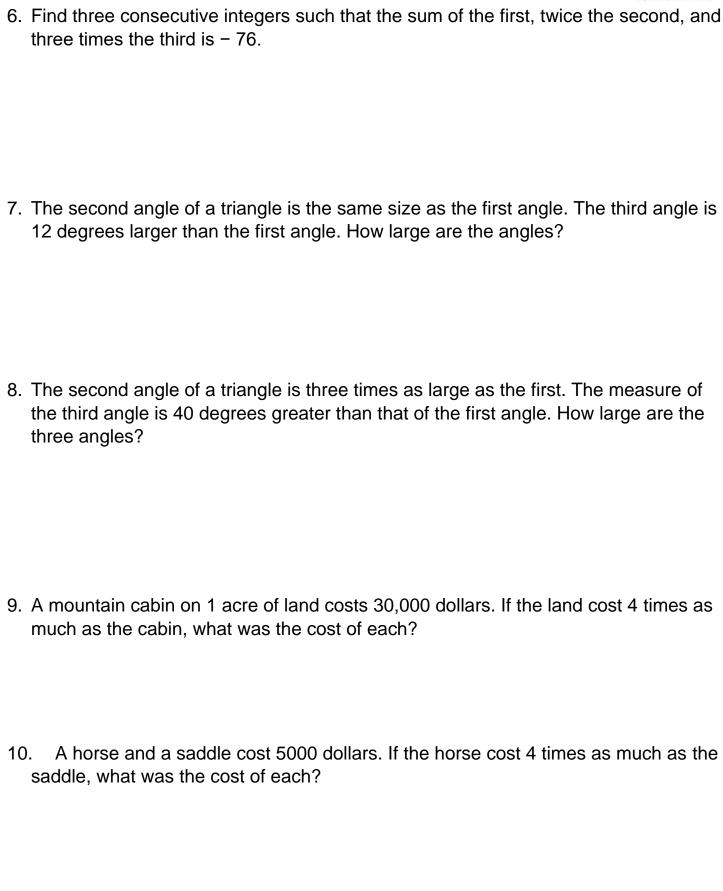Linear equations Word problems

1. If five is subtracted from three times a certain number, the result is 10. What is the number?

2. A certain number added twice to itself equals 96. What is the number?

3. Sixty more than nine times a number is the same as two less than ten times the number. What is the number?

4. Fourteen less than eight times a number is three more than four times the number. What is the number?

5. The sum of three consecutive integers is − 126. What are the integers?

6. Find three consecutive integers such that the sum of the first, twice the second, and three times the third is − 76.

7. The second angle of a triangle is the same size as the first angle. The third angle is 12 degrees larger than the first angle. How large are the angles?

8. The second angle of a triangle is three times as large as the first. The measure of the third angle is 40 degrees greater than that of the first angle. How large are the three angles?

9. A mountain cabin on 1 acre of land costs 30,000 dollars. If the land cost 4 times as much as the cabin, what was the cost of each?

10. A horse and a saddle cost 5000 dollars. If the horse cost 4 times as much as the saddle, what was the cost of each?

Answers

1. 5

2. 32

3. 62

4. 17/4

5. -43, − 42, − 41

6. -14, − 13, − 12

7. 56, 56, 68

8. 28, 84, 68

9. 6000, 24000

10. 1000, 4000