

1. Calculate:

$$\frac{3}{5} \cdot \frac{27}{45} =$$

$$\frac{14a}{48} \cdot \frac{8a}{42} =$$

$$\frac{3}{5} \cdot \frac{11}{5} =$$

$$\frac{9}{10}x \frac{5}{12} =$$

Solve equations by substitution:

Example: $(y + 5) \div 3 = 7$

substitution: $y + 5 = z$

$$z \div 3 = 7$$

$$z = 7 \times 3 = 21$$

$$y + 5 = 21$$

$$y = 21 - 5 = 16 \quad \text{Check: } (16 + 5) \div 3 = 7$$

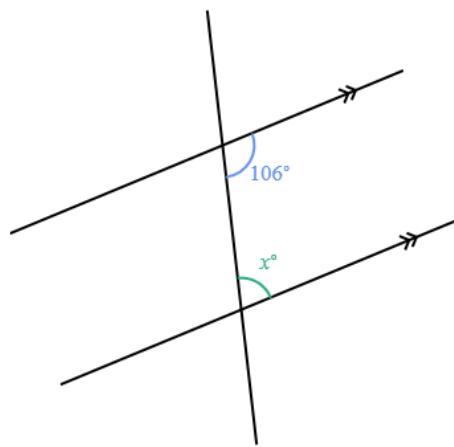
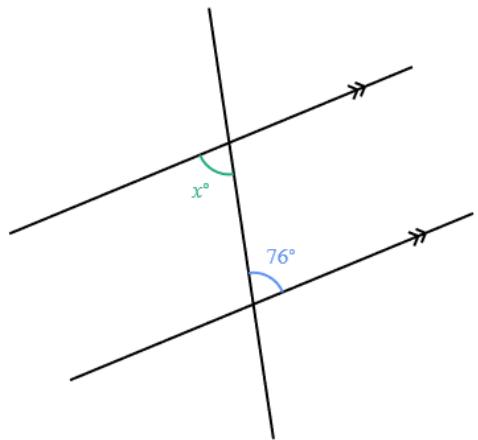
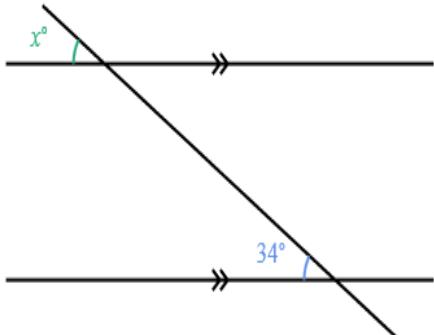
$$a) (x - 12) \times 8 = 56$$

$$b) 124 \div (y - 5) = 31$$

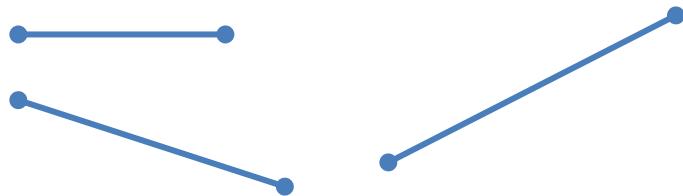
2. In a zoo there are birds (they have 2 legs each) and mammals with 4 legs each. How many birds and mammals are in the zoo, if they have 6000 legs and 2500 heads altogether? (use substitution)

Geometry:

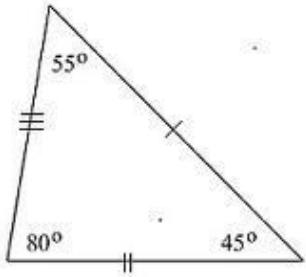
Find the missing angles



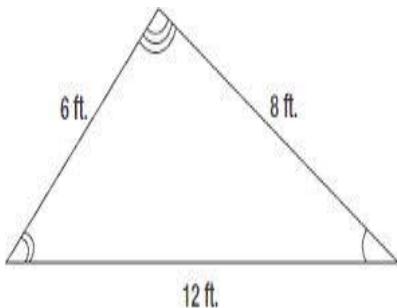
How to construct a triangle with sides equal to three line segments:



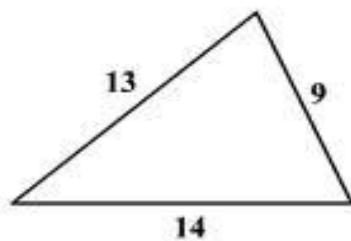
For the given triangles make the correct fit of angles and sides.



- a) 15cm, 10cm, 8cm



- b) 44°, 70°, ?



- c) 35°, 65°, ?

Find x

