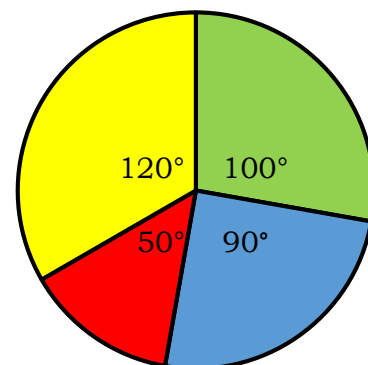1.
Find x. Give reasons for your answer.

(3)
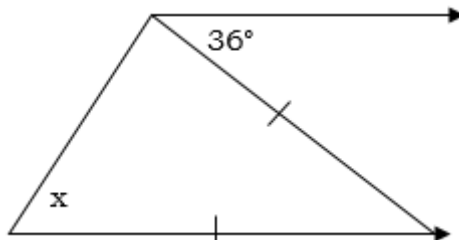
2.
Jasmine has a biased spinner with four sections, pictured to the right.

(a) Work out the probability that the spinner lands on blue.
    Give your answer as a decimal.

(2)

(b) Jasmine is going to use the spinner at a fair.
    Each player will pay £1 to spin.
    If the spinner lands on red, the player wins £5.
    If the spinner lands on green, the player wins their £1 back.
    If the spinner lands on any other section, the player wins nothing.

    900 people are going to play the game.
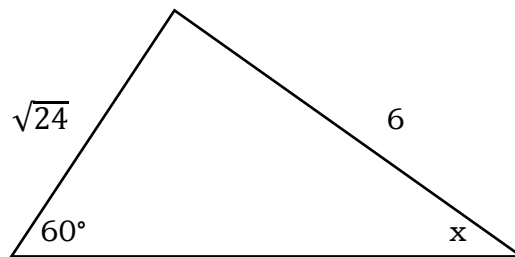   Do you expect Jasmine to make a profit or a loss?

(4)

3.

Solve $\dfrac{3}{x-2} = \dfrac{2(2x+1)}{3x}$

(5)

4.

Find x.

(6)