Unit 6.6 Hints to solve

14. The lengths of two sides of a regular quadrilateral are represented by the expressions 8x - 6 and 4x + 22. Find the length of a side of the quadrilateral.

Since this is a "regular" quadrilateral then the sides are all equal, so set up this way:

8x - 6 = 4x + 22

Solve for **x**

Then put x back into 4x + 22 to get the side length

15. The expressions $(3x + 63)^\circ$ and $(7x - 45)^\circ$ represent the measures of two angles of a regular decagon. Find the measure of an angle of the decagon.

Since this is a "regular" decagon then the angles are all equal, so set up this way:

3x + 63 = 7x - 45

Solve for **x**

Then put x back into3x + 63 to get the angle