





)
$$3(m + 5) = 10m + 1$$



m =

p =

5



6

Esther says that the two equations have the same solution.

Solve the two equations.

3x + 9 = x - 8x + 9 = 3x - 82x + 9 = -89 = 2x - 82x = -1717 = 2x $x = -\frac{17}{2}$ $\frac{13}{2} = x$ Comment on the mistake Esther has made.Two angles are shown on the diagram.Two angles are shown on the diagram.

190° – *x*

x =

35

a) Explain why 3x + 50 = 190 - x

Corresponding angles are equal

b) Solve the equation to work out the value of *x*.

