

Question

We will have:

$$6 = \frac{(9-5)}{(r-7)} \Rightarrow 6 \cdot (r-7) = 4 \Rightarrow 6r - 42 = 4 \Rightarrow 6r = 46 \Rightarrow r = \frac{23}{2}.$$

Answer: $r = \frac{23}{2}$.