Answer on Question #79958 – Math – Geometry

Question

Suppose Q is the midpoint of PR (underscores above the first PR). If PQ=3x+14 and

QR=7x-10, find PR.

Solution

As Q is the midpoint of PQ then

PQ=QR

3x+14=7x-10

14+10=7x-3x

24 = 4x

x=6

PR=PQ+QR

PR=3x+14+7x-10=10x+4

As x=6 then PR=10*6+4=64

Answer: 64.