

Points T, I, and P are collinear. Point I is the midpoint of TP. TI=14, TP=9x-17 solve for x

Solution:

Points are collinear if they lie on the same line.



Given:

TI = 14, TP = 9x - 17 and TI = IP, so

TI + IP = 2TI = TP and so

$$28 = 9x - 17$$

$$9x = 45$$

Answer: x = 5