

<> Question:

-> calculer la longueur de la médiatrice MN (*)

(*) voir l'image de la page d'accueil

<> Réponse:

-> calcul de BN:

-> $(BN)^2 = (BC)^2 + (CN)^2$

-> $(BN)^2 = 24^2 + 7^2$

-> $(BN)^2 = 576 + 49 = 625$

-> $BN = \text{SquareRoot}(625) = 25$

-> ABN = triangle isocèle => BN = AN = 25

-> comme AC = AN + 7 => AC = 25 + 7 = 32

-> $(AB)^2 = (AC)^2 + (BC)^2$

-> $(AB)^2 = 32^2 + 24^2$

-> $(AB)^2 = 1024 + 576 = 1600$

-> $AB = \text{SquareRoot}(1600) = 40$

-> si AB = 40 => AM = BM = 20

-> $(BN)^2 = (BM)^2 + (MN)^2$

-> BM = 20 et BN = 25 => $25^2 = 20^2 + (MN)^2$

-> $625 = 400 + (MN)^2$

-> $625 - 400 = (MN)^2$

-> $225 = (MN)^2$

-> $MN = \text{SquareRoot}(225) = 15$

-> réponse finale:

	MN = 15	
+-----+		+-----+