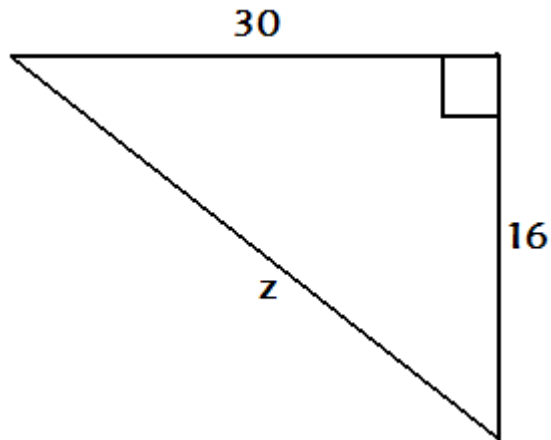




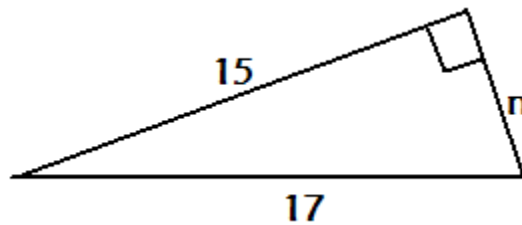
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Pythagoras

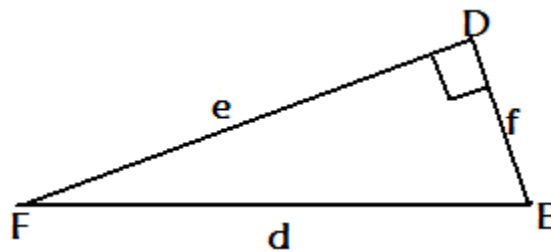
1. Calculate the length of z .



2. Calculate the length of n .



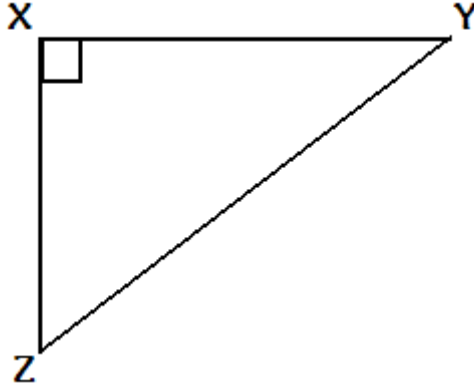
3. In the right-angled triangle DEF, $d = 17\text{mm}$ and $f = 9\text{mm}$. Calculate the length of e .





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4. In the right-angled triangle XYZ, $XY = 24\text{m}$ and $YZ = 45\text{m}$. Calculate the length of XZ.



5. A grandfather clock shows that it is exactly 9h00. If the length of the long arm is 133 mm, and the distance between the tips of the two arms is 162mm, Calculate the length of the short arm.





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MEMO

[7.1.1.1 to 7.1.1.6]

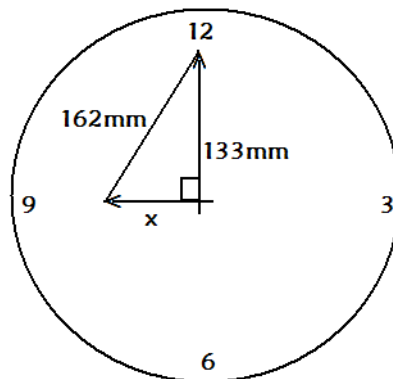
1. $z^2 = (30)^2 + (16)^2$
 $z^2 = 900 + 256$
 $z^2 = 1\ 156$
 $z = 34$

2. $(17)^2 = (15)^2 + n^2$
 $289 = 225 + n^2$
 $n^2 = 64$
 $n = 8$

3. $d^2 = e^2 + f^2$
 $17^2 = e^2 + 9^2$
 $e^2 = 208$
 $e = 14,4\text{mm}$

4. $XZ^2 = YZ^2 - XY^2$
 $XZ^2 = 45^2 - 24^2$
 $XZ^2 = 1\ 449$
 $XZ = 38,1\text{m}$

5.





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$$\begin{aligned}x^2 &= 162^2 - 133^2 \\x^2 &= 26\,244 - 17\,689 \\x^2 &= 8\,555 \\x &= 92,49\text{mm}\end{aligned}$$

