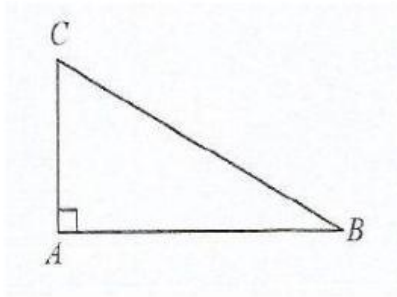


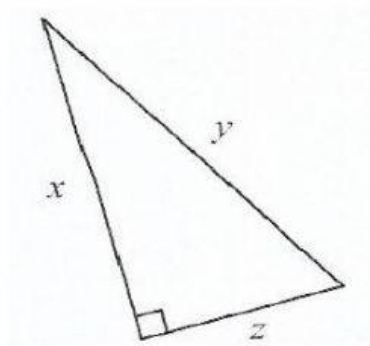
BAB 13 : TEOREM PYTHAGORAS

Bagi setiap yang berikut, kenal pasti hipotenus

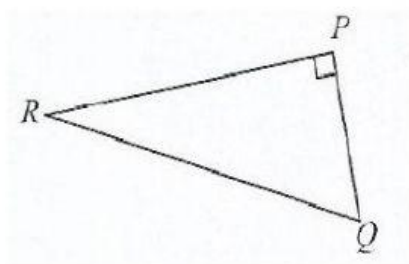
a)



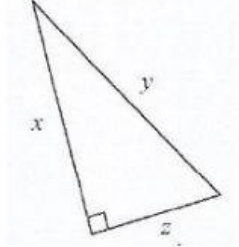
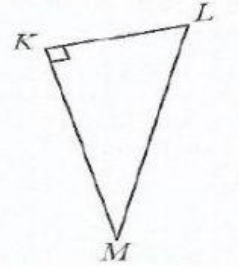
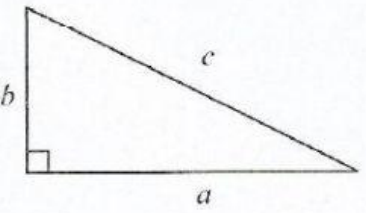
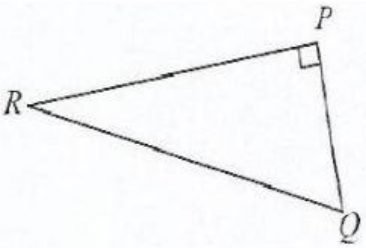
b)



c)

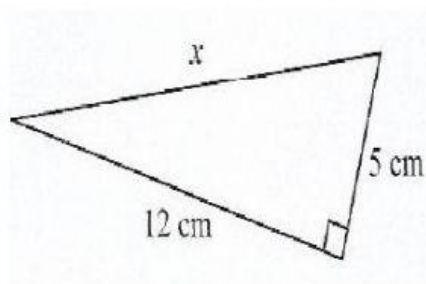


Bagi setiap yang berikut, pilih hubungan antara panjang sisi segi tiga bersudut tegak yang betul.

a) 	<table border="1"> <tr> <td>$x^2 = y^2 + z^2$</td><td></td></tr> <tr> <td>$y^2 = x^2 + z^2$</td><td></td></tr> <tr> <td>$z^2 = y^2 + x^2$</td><td></td></tr> </table>	$x^2 = y^2 + z^2$		$y^2 = x^2 + z^2$		$z^2 = y^2 + x^2$	
$x^2 = y^2 + z^2$							
$y^2 = x^2 + z^2$							
$z^2 = y^2 + x^2$							
b) 	<table border="1"> <tr> <td>$LM^2 = KL^2 + KM^2$</td><td></td></tr> <tr> <td>$KM^2 = KL^2 + LM^2$</td><td></td></tr> <tr> <td>$KL^2 = LM^2 + KL^2$</td><td></td></tr> </table>	$LM^2 = KL^2 + KM^2$		$KM^2 = KL^2 + LM^2$		$KL^2 = LM^2 + KL^2$	
$LM^2 = KL^2 + KM^2$							
$KM^2 = KL^2 + LM^2$							
$KL^2 = LM^2 + KL^2$							
c) 	<table border="1"> <tr> <td>$c^2 = a^2 - b^2$</td><td></td></tr> <tr> <td>$a^2 = c^2 - b^2$</td><td></td></tr> <tr> <td>$b^2 = a^2 - c^2$</td><td></td></tr> </table>	$c^2 = a^2 - b^2$		$a^2 = c^2 - b^2$		$b^2 = a^2 - c^2$	
$c^2 = a^2 - b^2$							
$a^2 = c^2 - b^2$							
$b^2 = a^2 - c^2$							
d) 	<table border="1"> <tr> <td>$RQ^2 = RP^2 - PQ^2$</td><td></td></tr> <tr> <td>$RP^2 = PQ^2 - RQ^2$</td><td></td></tr> <tr> <td>$PQ^2 = RQ^2 - RP^2$</td><td></td></tr> </table>	$RQ^2 = RP^2 - PQ^2$		$RP^2 = PQ^2 - RQ^2$		$PQ^2 = RQ^2 - RP^2$	
$RQ^2 = RP^2 - PQ^2$							
$RP^2 = PQ^2 - RQ^2$							
$PQ^2 = RQ^2 - RP^2$							

Hitung nilai x bagi setiap yang berikut . Lengkapi langkah pengiraan yang diberi.

a)

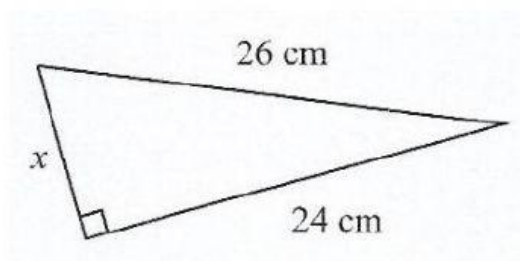


$$x^2 = \boxed{}^2 + 5^2$$

$$x^2 = 144 + \boxed{}$$

$$x = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

b)

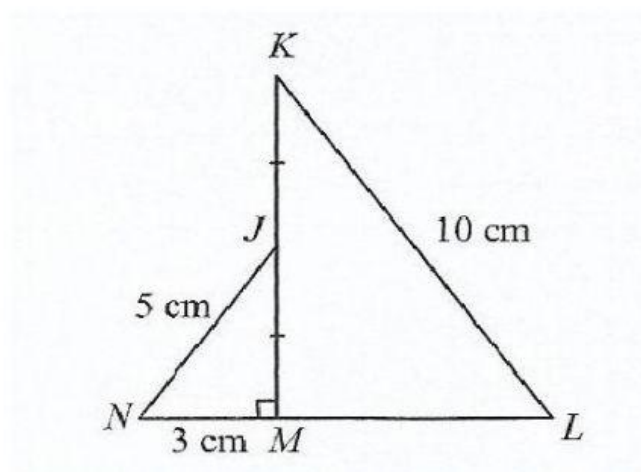


$$\boxed{}^2 = 24^2 + \boxed{}^2$$

$$676 - \boxed{} = x^2$$

$$x = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

Hitung panjang LM dalam rajah yang berikut. Lengkapkan langkah pengiraan yang diberi.



$$5^2 = 3^2 + JM^2$$

$$25 - \boxed{} = JM^2$$

$$JM = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

$$\text{Panjang KM} = \boxed{} \text{ cm}$$

$$KL^2 = KM^2 + LM^2$$

$$100 - \boxed{} = LM^2$$

$$\boxed{} = LM^2$$

$$LM = \sqrt{\boxed{}}$$

$$= \boxed{} \text{ cm}$$

