

NAMA GURU:

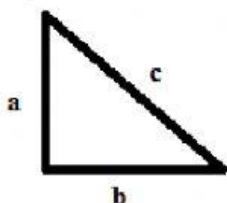
NAMA:

KELAS:

### 13.1 TEOREM PYTHAGORAS

**Nota**

- Hipotenus ialah sisi terpanjang suatu segi tiga bersudut tegak dan bertentangan dengan  $90^\circ$



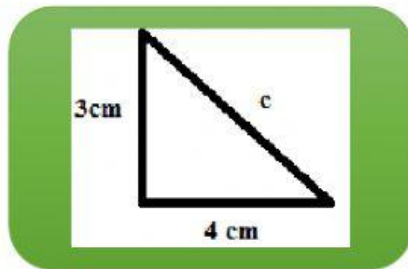
Formula ,  $c^2 = a^2 + b^2$

A Pilih yang manakah hipotenus yang betul bagi rajah di bawah.

|  |    |    |    |
|--|----|----|----|
|  | PQ | QR | PR |
|  | p  | r  | q  |
|  | x  | y  | z  |

B Selesaikan .

a)

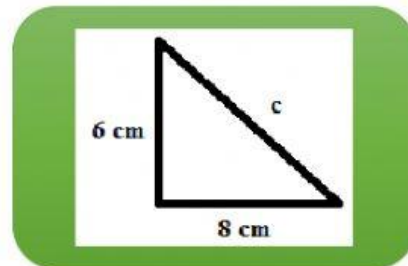


$$c^2 = 3^2 + 4^2$$

$$c^2 = 25$$

$$c = \underline{\hspace{2cm}} \text{ cm}$$

b)

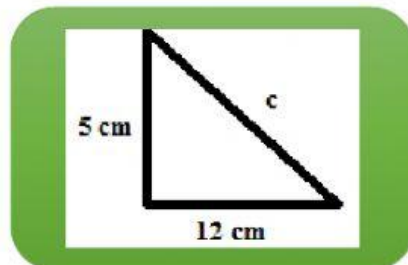


$$c^2 = 6^2 + 8^2$$

$$c^2 = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}} \text{ cm}$$

c)



$$c^2 = \underline{\hspace{1cm}}^2 + \underline{\hspace{1cm}}^2$$

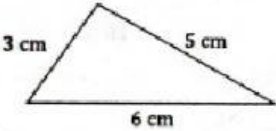
$$c^2 = \underline{\hspace{2cm}}$$

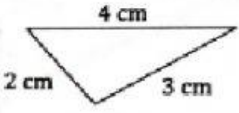
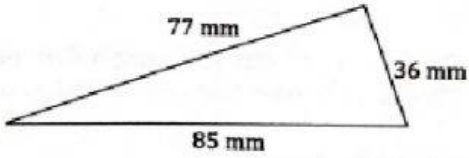
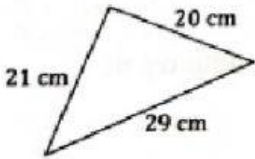
$$c = \underline{\hspace{2cm}} \text{ cm}$$

C Tandakan / sisi-sisi yang boleh membentuk segi tiga bersudut tegak dan tandakan X jika tidak.

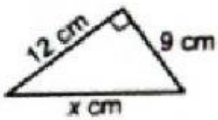
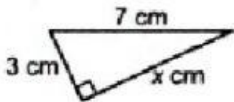
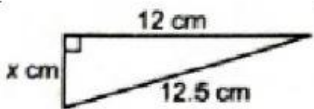
|     |                           |  |
|-----|---------------------------|--|
| i)  | 13 cm , 15 cm , dan 20 cm |  |
| ii) | 16 mm, 30 mm, dan 34 mm   |  |

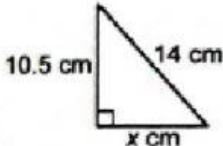
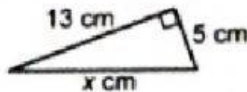
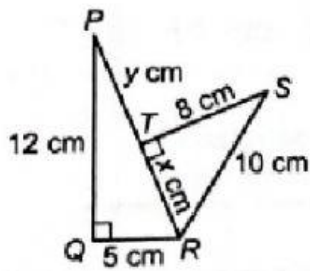
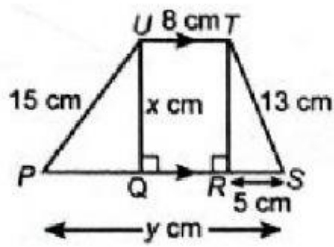
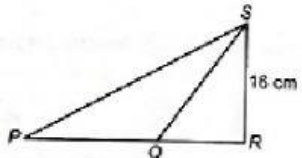
D Selesaikan.

|   |                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a | Isi petak kosong dengan jawapan yang betul bagi Teorem Pytagoras.<br>$2.5^2 = 0.7^2 + \underline{\hspace{2cm}}^2$                                                                                                                              |
| b | Tandakan / bahawa segi tiga bersudut tegak dan X bagi yang bukan.<br>  |

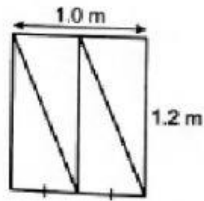
|   |                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| c | <p>Tandakan / bahawa segi tiga bersudut tegak dan X bagi yang bukan.</p>   |
| d | <p>Tandakan / bahawa segi tiga bersudut tegak dan X bagi yang bukan.</p>   |
| e | <p>Tandakan / bahawa segi tiga bersudut tegak dan X bagi yang bukan.</p>   |

#### E Selesaikan

|   |                                                                                                                                                                                                                                        |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a |   <p>Cari nilai bagi x.</p>                                     |
| b |   <p>Cari nilai bagi x. Berikan jawapan betul kepada 2 t.p</p> |
| c |   <p>Cari nilai bagi x. berikan jawapan betul kepada 1 t.p</p>  |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| d |  <p>Cari nilai bagi <math>x</math>. Berikan jawapan betul kepada 2 t.p</p> <div style="border: 1px solid black; width: 150px; height: 25px; margin-left: 550px; text-align: center;">cm</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| E |  <p>Cari nilai bagi <math>x</math>. Berikan jawapan betul kepada 2 t.p</p> <div style="border: 1px solid black; width: 150px; height: 25px; margin-left: 550px; text-align: center;">cm</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| F |  <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #f9cb9c;">x = 5 cm</div> <div style="border: 1px solid black; padding: 5px; background-color: #c6e0b4;">y = 5 cm</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #f9cb9c;">x = 6 cm</div> <div style="border: 1px solid black; padding: 5px; background-color: #c6e0b4;">y = 6 cm</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #f9cb9c;">x = 7 cm</div> <div style="border: 1px solid black; padding: 5px; background-color: #c6e0b4;">y = 7 cm</div> </div> <p>Cari nilai bagi <math>x</math> dan <math>y</math> bagi rajah di atas.</p>         |
| g |  <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #f9cb9c;">x = 12 cm</div> <div style="border: 1px solid black; padding: 5px; background-color: #c6e0b4;">y = 20 cm</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #f9cb9c;">x = 13 cm</div> <div style="border: 1px solid black; padding: 5px; background-color: #c6e0b4;">y = 21 cm</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #f9cb9c;">x = 14 cm</div> <div style="border: 1px solid black; padding: 5px; background-color: #c6e0b4;">y = 22 cm</div> </div> <p>Cari nilai bagi <math>x</math> dan <math>y</math> bagi rajah di atas.</p> |
| h | <p>Dalam rajah di bawah , panjang PS dan QS masing-masing ialah 34 cm dan 20 cm.</p>  <div style="border: 1px solid black; width: 100px; height: 30px; margin-left: 550px; text-align: center;">= cm<sup>2</sup></div> <p>Cari luas, dalam cm<sup>2</sup> , bagi PQS</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

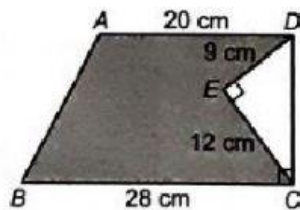
- i Rajah di bawah menunjukkan bingkai keluli bagi sebuah tingkap bagi sebuah tingkap. Diberi bahawa kos untuk keluli ialah RM 30 per meter.



Hitung kos bingkai keluli untuk sebuah tingkap itu.

RM

- j Rajah di bawah menunjukkan sebuah trapezium ABCD.



Cari,

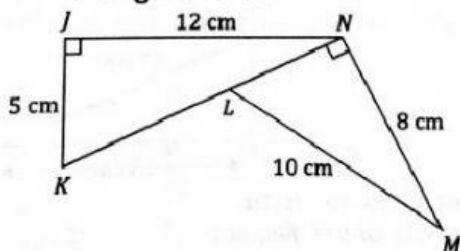
- i) Luas kawasan berlorek

cm<sup>2</sup>

- ii) Perimeter kawasan berlorek.

cm

- k Rajah di bawah menunjukkan segitiga bersudut tegak, JKN dan LMN. KLN ialah garis lurus.



Cari perimeter, dalam cm seluruh rajah tersebut.

cm