

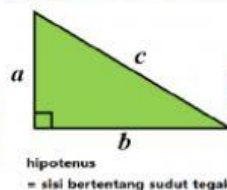
Nota penting:

Teorem Pythagoras

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

$$a^2 = c^2 - b^2$$

$$b^2 = c^2 - a^2$$



$$\text{hipotenus}^2 = (\text{sisi } a)^2 + (\text{sisi } b)^2$$

$$a^2 + b^2 = \text{hipotenus}^2$$

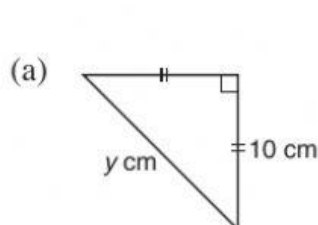
$$a^2 = \text{hipotenus}^2 - b^2$$

$$b^2 = \text{hipotenus}^2 - a^2$$

Bab 13 Teorem Pythagoras

Latihan: Isi tempat kosong

- Dengan menggunakan Teorem Pythagoras, cari nilai y dalam setiap rajah yang berikut. Berikan jawapan anda kepada dua tempat perpuluhan.

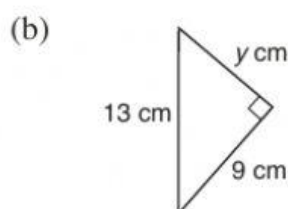


$$y^2 = \boxed{}^2 + \boxed{}^2$$

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

$$y = \sqrt{\boxed{}}$$

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



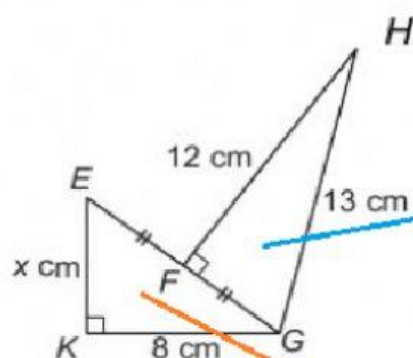
$$13^2 = \boxed{}^2 + \boxed{}^2$$

$$y^2 = 13^2 - \boxed{}^2$$

$$y = \sqrt{\boxed{}}$$

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

- Hitung nilai x dalam setiap rajah yang berikut.



$$GF^2 = 13^2 - \boxed{}^2$$

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

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

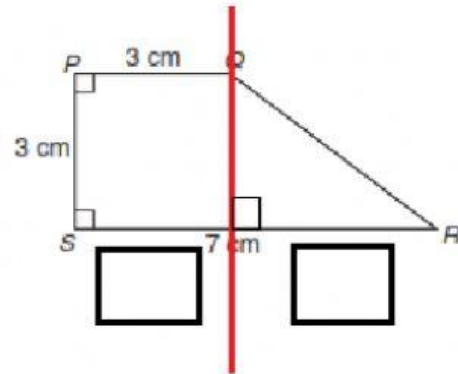
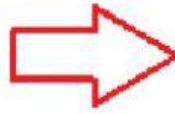
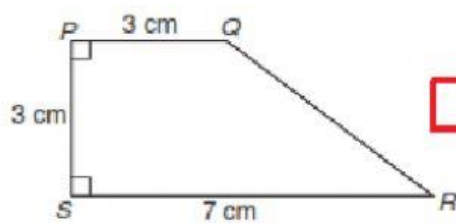
$$EG = 2 \times GF = \boxed{} \text{ cm}$$

$$x^2 = EG^2 - 8^2$$

$$x^2 = \boxed{}^2 - 8^2$$

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

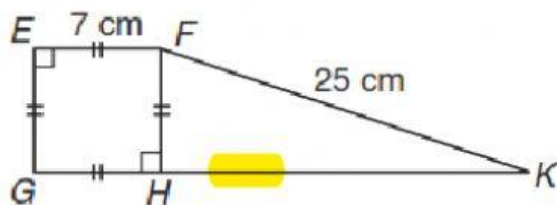
3. Selesaikan setiap masalah yang berikut.



Hitung **perimeter** rajah di atas.

$$\begin{aligned} QR^2 &= 3^2 + \boxed{} \\ QR^2 &= \boxed{} \\ QR &= \sqrt{} \\ &= \text{ cm} \end{aligned}$$

$$\begin{aligned} \text{Perimeter} &= 3 + 3 + 7 + \boxed{} \\ &= \text{ cm} \end{aligned}$$



Hitung **luas** seluruh rajah di atas.

panjang FH = **cm**

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

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

$$HK = \sqrt{}$$

$$= \text{ cm}$$

Luas seluruh rajah

= luas segi empat sama + luas segi tiga

$$= (\times) + \left(\frac{1}{2} \times \times \right)$$

$$= + $$

$$= \text{ cm}^2$$