



وزارة التربية والتعليم

الإدارة المركزية لتطوير المناهج

إدارة تنمية مادة الرياضيات

أداءات ونقيمات لمنهج الرياضيات

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للعام الدراسى 2024 / 2025

الرياضيات

First Group

- 1) Determine the type of the triangle ABC according to its angles if $AB = 8$ cm,
 $BC = 10$ cm, $AC = 6$ cm.

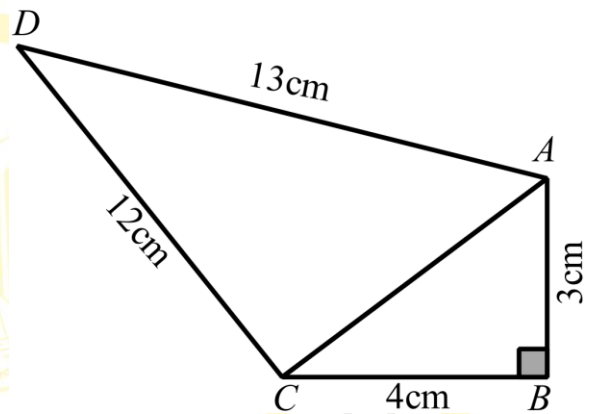
2) In the opposite figure:

$m(\angle B) = 90^\circ$, $AB = 3$ cm, $BC = 4$ cm,

$AD = 13$ cm, $DC = 12$ cm.

Prove that:

$m(\angle ACD) = 90^\circ$



- 3) If the probability that a player will score a goal is 0.7, find the probability that he will not score a goal.
- 4) If a fair dice is thrown once, then find the probability of appearing an odd number.
- 5) A class has 40 pupils, if the probability of choosing a boy is 0.6, then find the number of girls.

Second Group

- 1) Determine the type of the triangle ABC according to its angles if $AB = 6$ cm,
 $BC = 10$ cm, $AC = 12$ cm.

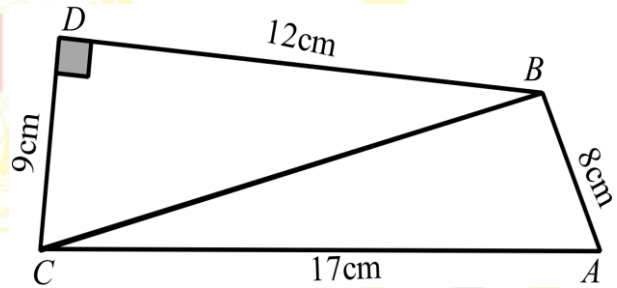
2) In the opposite figure:

$m(\angle D) = 90^\circ$, $AB = 8$ cm, $AC = 17$ cm,

$DC = 9$ cm, $DB = 12$ cm.

Prove that:

$m(\angle ABC) = 90^\circ$



- 3) If x is the probability of the impossible event and y is the certain event, then find the value of $3^x + 2^y$.
- 4) If a fair dice is thrown once, then find the probability of appearing an even number.
- 5) A class has 35 pupils, if the probability of choosing a girl is 0.6, then find the number of boys.

Third Group

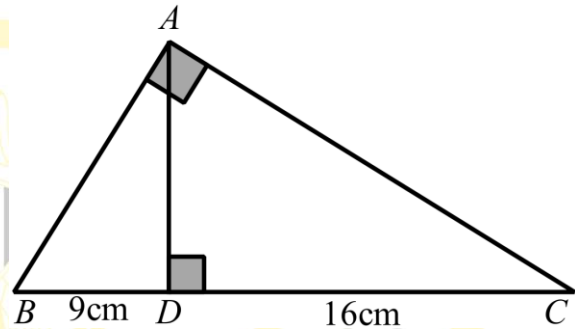
- 1) Determine the type of the triangle ABC according to its angles if $AB = 11$ cm,
 $BC = 13$ cm, $AC = 10$ cm.

2) In the opposite figure:

ABC is a triangle in which:

$$m(\angle BAC) = 90^\circ, \text{ and } D \in \overline{BC}$$

Such that: $\overline{AD} \perp \overline{BC}$, $DC = 16$ cm, $DB = 9$ cm



Find: The length of $\overline{AD}$

- 3) If x is the probability of the impossible event and y is the probability of the certain event, then find the value of $2x + 5y$
- 4) If a fair dice is thrown once, then find the probability of appearing a prime number.
- 5) A class has 32 pupils, if the probability of choosing a boy is 0.5, then find the number of girls.