

CHAPTER - 11
CONSTRUCTIONS

EXERCISE 11.2

Write true or false in each of the following. Give reasons for your answer:

1. An angle of 52.5° can be constructed.
2. An angle of 42.5° can be constructed.
3. A triangle ABC can be constructed in which $AB = 5$ cm, $\angle A = 45^\circ$ and $BC + AC = 5$ cm.
4. A triangle ABC can be constructed in which $BC = 6$ cm, $\angle 30^\circ$ and $AC - AB = 4$ cm.
5. A triangle ABC can be constructed in which $\angle B = 105^\circ$, $\angle C = 90^\circ$ and $AB + BC + AC = 10$ cm.
6. A triangle ABC can be constructed in which $\angle B = 60^\circ$, $\angle C = 45^\circ$ and $AB + BC + AC = 12$ cm