MATHEMATICS WORK SHEET 2021-22 STANDARD X

TRIGONOMETRY

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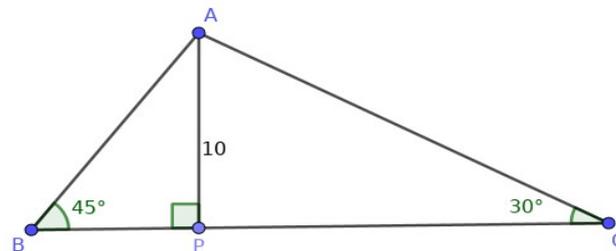**1.** In the figure ABCD is a parallelogram $\angle A = 30^0$, AB = 12 cm , AD = 6 cm
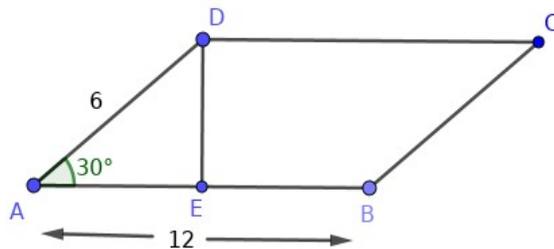
(a) Find the length of DE
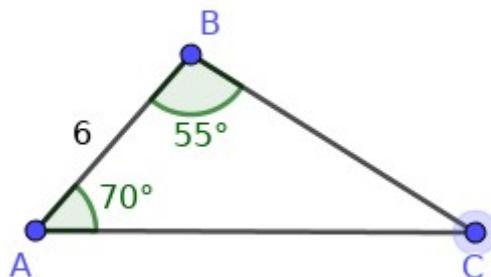(b) Find the area of the parallelogram ABCD

2.

In triangle ABC, the length of AP is 10cm
(a) What is the length of BP?
(b) What is the length of PC?
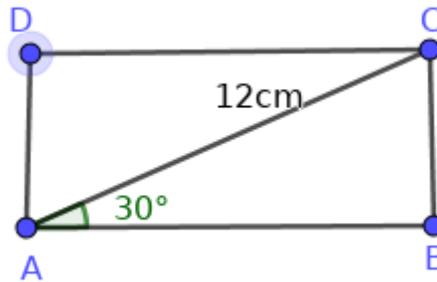(c) Calculate the length of BC

3.

In triangle ABC length of AB=6cm, $\angle A=70^0, \angle B = 55^0$
    (a) Find $\angle C$
    (b) Find AC
    (c) Find the area of triangle ABC ($\sin 70^0 = 0.93$)

4. The diagonal of a rectangle is 12cm and it makes an angle 30^0 with one side. Find the perimeter and area of the rectangle.

5. Angle measures of a triangle are $30^0, 70^0, 80^0$. If the length of its smallest side is 10cm. Find the length of its other sides.

6. What is the circum radius of an equilateral triangle of side 10cm?

7. A man standing at the edge of a river sees the top of a tree at an elevation of 60^0. Stepping 20 metres back he sees it at an elevation of 30^0. Draw a rough figure and find the width of the river