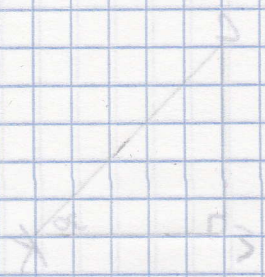


Given: $\triangle ABC$ is an isosceles triangle

$\angle A = 30^\circ$; $\angle B = \angle C = 75^\circ$

Altitude: AD

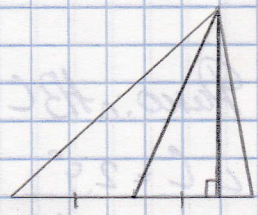


Find:

1) $\angle ABD$ and $\angle ACD$

2) AD if $AB = 10$ cm

3) BD and CD



Solution:

1) $\angle ABD = \angle ACD = 75^\circ$

2) $AD = 5$ cm

3) $BD = CD = 5$ cm