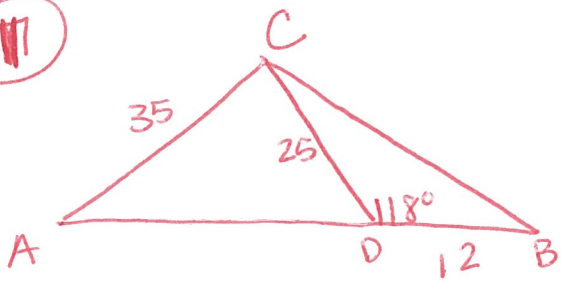
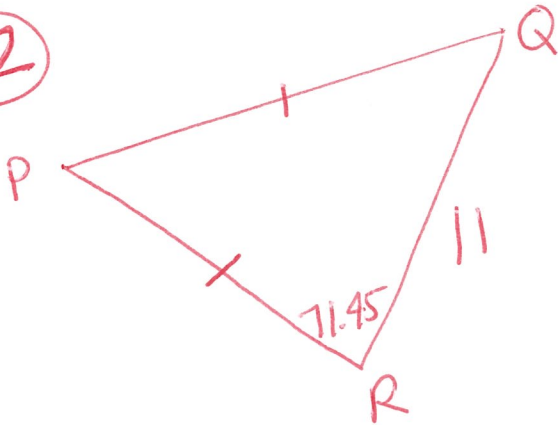


111



Find  $\angle A$ .

2



Find area of isosceles triangle PQR.

3 a.  $\sin\left(\frac{4\pi}{3}\right)$     b.  $\tan\left(\frac{11\pi}{6}\right)$     c.  $\cos\left(-\frac{7\pi}{4}\right)$

4 Given  $\cos \theta = \frac{\sqrt{3}}{2}$  and  $\csc \theta < 0$

Find  $\cot \theta$

5) Find the  $\sin(157.5)$

6) Find  $\cos(165)$

7) verify.

$$\frac{\sin^2 \theta + \cos^2 \theta + \cot^2 \theta}{1 + \tan^2 \theta} = \cot^2 \theta$$

$$\textcircled{8} \quad \frac{\sin x}{\cos x + 1} + \frac{\cos x - 1}{\sin x} = 0$$