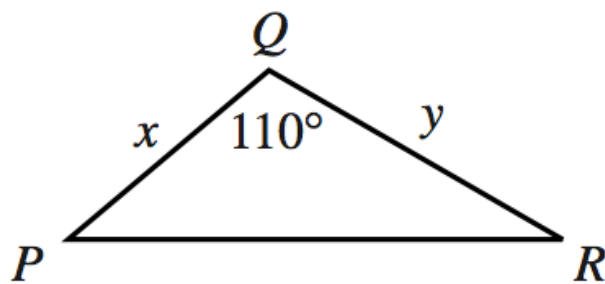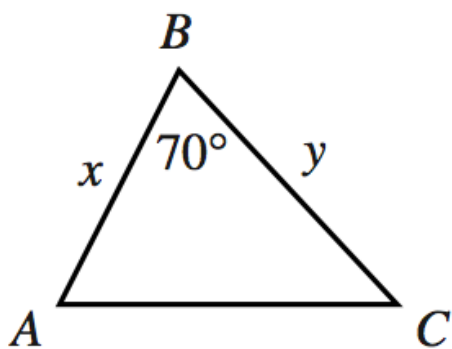56. Triangles △ABC and △PQR are shown below. The given side lengths are in centimeters. The area of △ABC is 30 square centimeters. What is the area of △PQR, in square centimeters?

F. 15
G. 19
H. 25
J. 30
K. 33

59. In the triangle below, where the 2 given side lengths are expressed in feet, what is the value of b ?

A. $3 \cos 20°$
B. $3 \sin 20°$
C. $3 \tan 20°$
D. $3 \sin 70°$
→E. $3 \tan 70°$

Handwritten annotations:

E

ADVANCED TRIGONOMETRY Cofunction Identitie

$$\tan \theta = \cot(90 - \theta)$$

You know $\tan 20° = \dfrac{3}{b}$ and $b = \dfrac{3}{\tan 20}$

HOWEVER this is NOT one of your choices
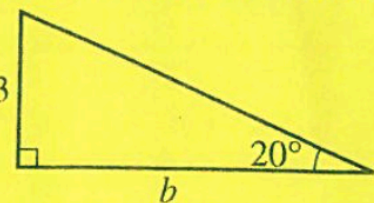
If $\tan 20° = \cot 70°$ and $\cot \theta = \dfrac{1}{\tan \theta}$, then

$$\dfrac{3}{\tan 20} = \dfrac{3}{\frac{1}{\tan 70°}} = 3 \tan 70°$$