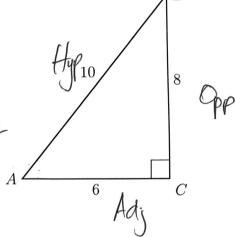
12.5 End of Unit Test

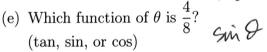
HSG.SRT.D.11

- 1. Right triangle $\triangle ABC$ is shown with side lengths marked.
 - (a) Which length is the hypotenuse?
 - (b) Which length is opposite angle A?
 - (c) Which length is adjacent to angle A?
 - (d) What is the area of the triangle?

(e) What fraction describes $\cos A$?

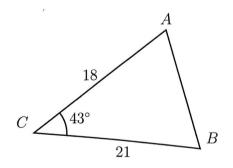


- - (a) Calculate the length PR. $a^2 + 4^2 = 8^2$ $\Rightarrow a = \sqrt{48} = 4\sqrt{3} = 6.9$
 - (b) What fraction is $\sin \theta$? $\frac{1}{2} \frac{1}{2} \frac{1}{2}$
 - (c) What fraction is $\cos \theta$? 413 = 13 = 0.866
 - (d) What fraction is $\tan \theta$?



(f) Find the area of the triangle.

3. Find the area of the given triangle.

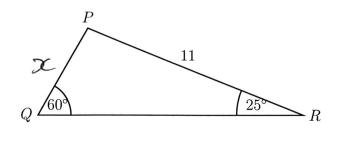


4. The following diagram shows triangle PQR, with $P\hat{Q}R = 60^{\circ}$, $P\hat{R}Q = 25^{\circ}$, and PR = 11.

Find PQ.

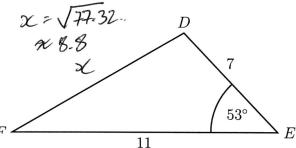
diagram not to scale

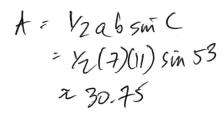
Sine Rule x = 11 - 5m60 =) SC = 11.8 m 25 S m 60= 5.36... 25.37



5. The following diagram shows triangle DEF, with DE = 7, $D\hat{E}F = 53^{\circ}$, and EF = 11. diagram not to scale

(a) Find DF. $\chi = \sqrt{77.32}$. $\chi = \sqrt{77.32}$. $\chi = \sqrt{27.32}$. = 77.32. (b) What is the area of the triangle?





6. Triangle ABC has side lengths AB = 13.2 and AC = 5.6, while $ABC = 30^{\circ}$.

