Lesson 2 Practice Problems
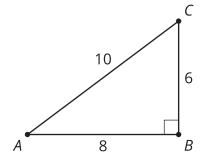
1. Which of the following is true?
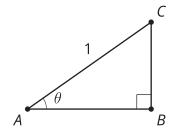

A. $\sin(A) = \frac{6}{10}$

B. $\cos(A) = \frac{6}{10}$
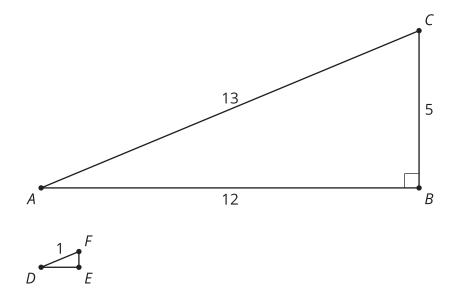
C. $\sin(C) = \frac{6}{10}$

D. $\cos(C) = \frac{8}{10}$

2. Here is triangle ABC:

a. Express the length of segment AB using sine or cosine.
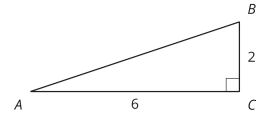

b. Express the length of segment BC using sine or cosine.
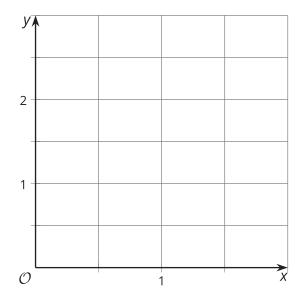
3. Triangle DEF is similar to triangle ABC.

a. What is the length of segment DE? What is the length of segment EF? Explain how you know.

b. Explain why the length of segment DE is $\cos(D)$ and the length of segment EF is $\sin(D)$.

4. Here is a triangle.

Find $\cos(A)$, $\sin(A)$, and $\tan(A)$. Explain your reasoning.

5. Sketch and label a right triangle ABC with $\tan(A) = 2$.

6. The point $(1, 4)$ lies on a circle with center $(0, 0)$. Name at least one point in each quadrant that lies on the circle.

(From Unit 6, Lesson 1.)