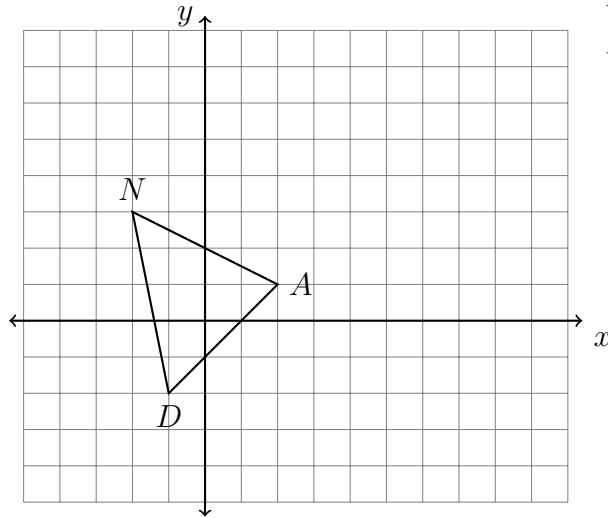


Name:

Do Now: Triangle translation

1. The vertices of $\triangle DAN$ have the coordinates $D(-1, -2)$, $A(2, 1)$, and $N(-2, 3)$, as shown below. Apply the translation $(x, y) \rightarrow (x + 5, y + 3)$ to $\triangle DAN$. Draw the image $\triangle D'A'N'$ on the set of axes below, labeling the vertices.

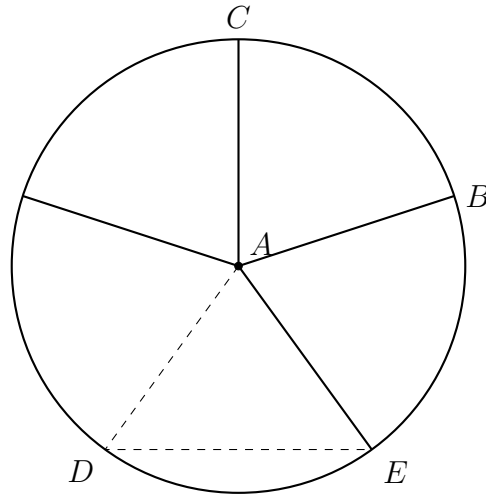


Which triangle has a larger area, or are they equal in area? Justify your answer.

2. What is the volume of a rectangular prism (box) with a base measuring 20 centimeters by 12 cm, and 8 cm tall?
3. What is the volume of an ice cream cone six inches tall and three inches in diameter, *rounded to the nearest whole cubic inch*?
4. The air traffic control zone above Kennedy airport is approximately a cylinder with a radius of 1 mile and height of 1,000 feet. What is the volume of the zone, *to the nearest whole cubic foot*?

Classwork: Circles and angle measures

5. A round pizza is sliced into five equal slices.



- (a) What is the *central angle* of a slice? (that is, the $m\angle CAB$)
- (b) What is the area of the slice? (one-fifth of the pie)
- (c) What is the $m\angle ADE$?
6. Convert 45° to radians. (leave your answer in terms of π)
7. Angle A has a measure of 1.2 radians. How much is that in degrees, *rounded to the nearest whole degree*?