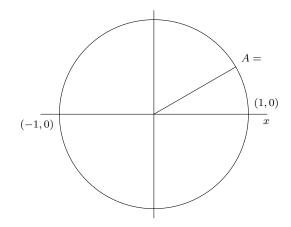
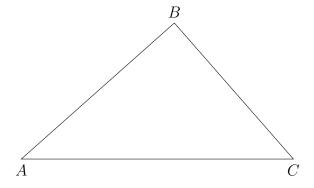
Do Now Quiz: Using the unit circle and the law of sines

Closed book & no notes. Show work in space provided. Work problems in order.

1. Given a circle with radius of one, centered on the origin. An angle with measure 30° is placed in standard position. Mark the point A, the intersection of the circle and angle ray, as an ordered pair.



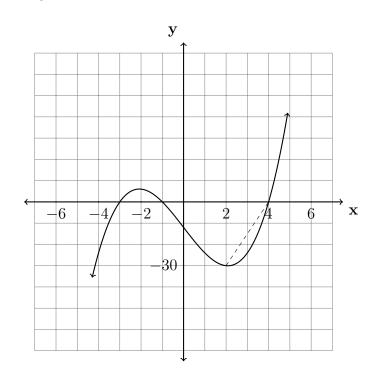
- (a) Write down the value of $\sin 30^{\circ}$
- (b) Write down the value of $\cos 30^{\circ}$
- 2. Triangle ABC has $\hat{A} = 40^{\circ}$, AB = 7 cm, & BC = 6 cm. Find the measure of \hat{C} :
 - (a) Write down the law of sines, substituting appropriate values.
 - (b) Solve for the measure of angle C



Do Now Quiz: Using the unit circle and the law of sines

Early finishers

3. The polynomial $f(x) = x^3 - 13x - 12$ is shown on the graph below. What is the slope between the local minimum at x = 2 and the x-intercept at x = 4? This is called the average rate of change between x = 2, 4.



4. Simplify the expression $32^{\frac{1}{5}}$. Explain your result.