

# PRECALCULUS

## Wednesday, Jan. 4

Sec. 4-2 pp. 238-240

1, 5, 11, 12, 15, 17, 18, 19, 23, 25, 1-2 on back

Sec. 4-1 pp. 227-229

9, 11, 22, 37, 47, 49, 28, 30, 45, 3-4 on back

## Friday, Jan. 6

Arc Length, Area of Sector, Linear & Angular Velocity Handout

## Tuesday, Jan. 10

Trig Basics Worksheet

## Thursday, Jan. 12

Special Angle Worksheet—Degrees & Radians

## Tuesday, Jan. 17

Review Intro to Trig

*Journal Due*

## Thursday, Jan. 19

# INTRO TO TRIG TEST

*Degree Flash Card Quiz Due Friday!*

### Day 1 Assignment—Navigation Problems

1. By hand, find the angle complementary to  $51^{\circ}13'$ .
2. By hand, add the angles  $29^{\circ}52'17''$  and  $102^{\circ}25'48''$ .
3. A jet flew 140 miles on a course of  $196^{\circ}$  and then turned and flew 120 miles on a course of  $106^{\circ}$ . The jet returned to its starting point via the shortest route possible. Find the total distance that the jet traveled and the direction (to the nearest degree) it flew in to return to its starting point.
4. A tugboat is 36 km due north of Lighthouse A. Lighthouse B has a bearing of  $90^{\circ}$  from Lighthouse A. The lighthouses are 53 km apart. Find the bearing of Lighthouse B from the tugboat and the distance from Lighthouse B to the tugboat.

### **ANSWERS**

#### Problems Above

1.  $38^{\circ}47'$
2.  $132^{\circ}18'5''$
3. 444 miles,  $335^{\circ}$
4. 64 km,  $124^{\circ}$

#### Sec. 4-1 pp. 227-229

22. 17.5
28. 11.3 ft.
30. 190 ft.
46. about 500 ft.

#### Sec. 4-2 pp. 238-240

12.  $-\frac{11\pi}{12}$
18.  $480^{\circ}$ ,  $-240^{\circ}$