Finish in-class assignment... (25 minutes more)

When finished...work on these questions from
the Trig Booklet:
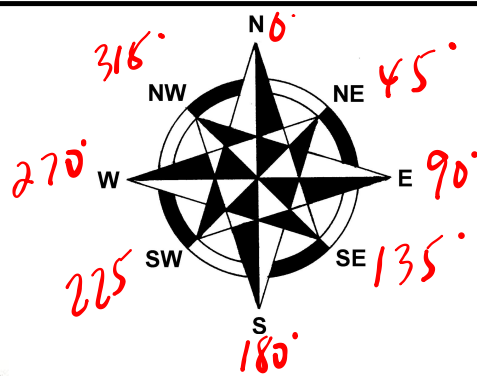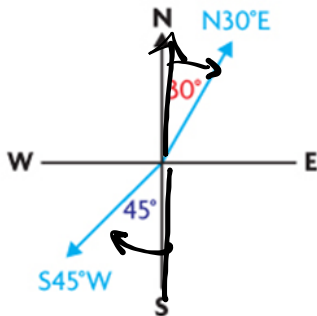
Practice & Problems #7, 8, 9

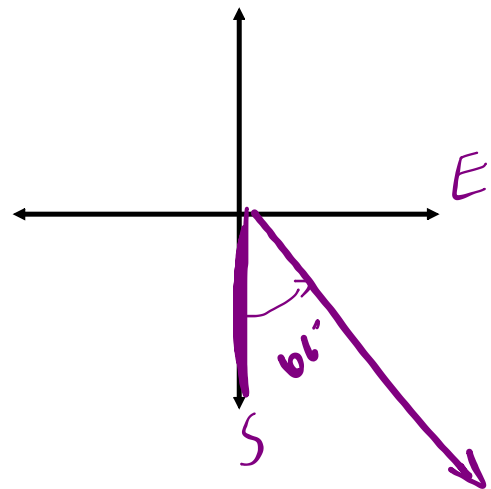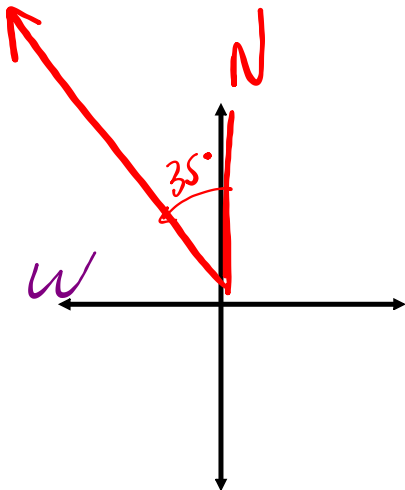# MORE APPLICATIONS... Bearings

NOTE:

Communication | Tip

Directions are often stated in terms of north and south on a compass. For example, N30°E means travelling in a direction 30° east of north. S45°W means travelling in a direction 45° west of south.

N30°E

S45°W

316° N 0°
45°
NW   NE
270° W   E 90°
SW   SE 135°
225° S 180°

Bearings... Taken off North and South

1) N35ºW ← 35° West of North   2) S61ºE ← 61° East of South

10.12

8 In an airport control tower A, 2 planes at B and C are located at the same altitude on a radar screen. The range finder determines one plane to bear N60°E at 100 km while the other bears S50°E at 160 km. How far apart are the planes from each other?

*Draw 2 pictures
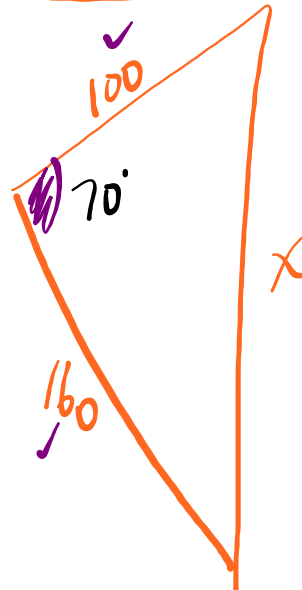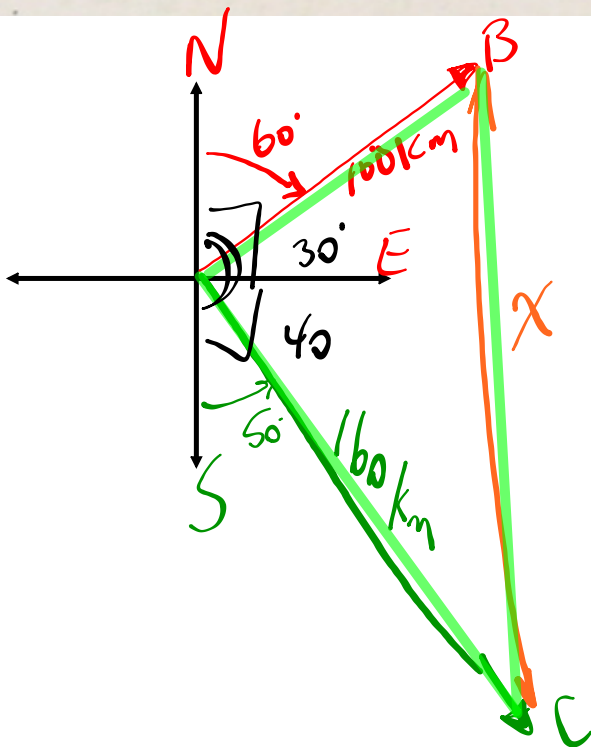
$x^2 = 100^2 + 160^2 - 2(100)(160)\cos 70°$

x^2
```
100²+160²-2*100*
160*cos(70)
           24655.35541
√(Ans
           157.0202389
```

Homework

10.12 # 11-12 (Bearings)

Practice Problems # 7, 8, 9