

### Review #13

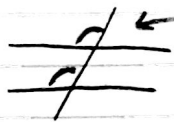
①  $45 + 5x + 35 = 180$   
 $80 + 5x = 180$   
 $5x = 100$   
 $x = 20$

b)  $5(20) + 35$   
 $100 + 35$   
 $135^\circ$

c)  $180 - 135 = 45^\circ$

d)  $45^\circ$

② **D**



corresponding angles

③ **E**

④  $180 - 58 = 122^\circ$

### Review #14

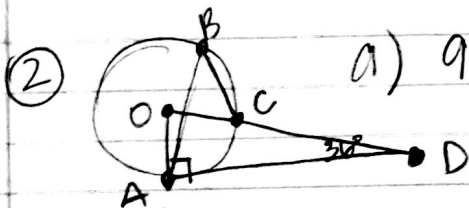
① a) inscribed angles are half of central

$130/2 = 65^\circ$

b)  $360 - 130 = 230^\circ$  major arc

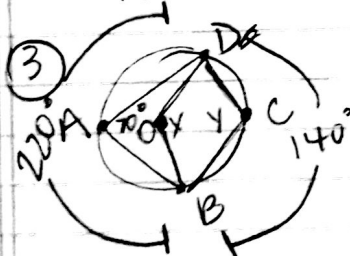
c)  $\left(\frac{\theta}{360}\right) 2\pi r = \left(\frac{130}{360}\right) 2\pi(4) = 9.08 \text{ in}$

d)  $\left(\frac{\theta}{360}\right) \pi r^2 = \left(\frac{130}{360}\right) \pi(4)^2 = 18.2 \text{ in}^2$



a)  $90 + 36 = 126$   
 $180 - 126 = 54^\circ$

b)  $54/2 = 27^\circ$



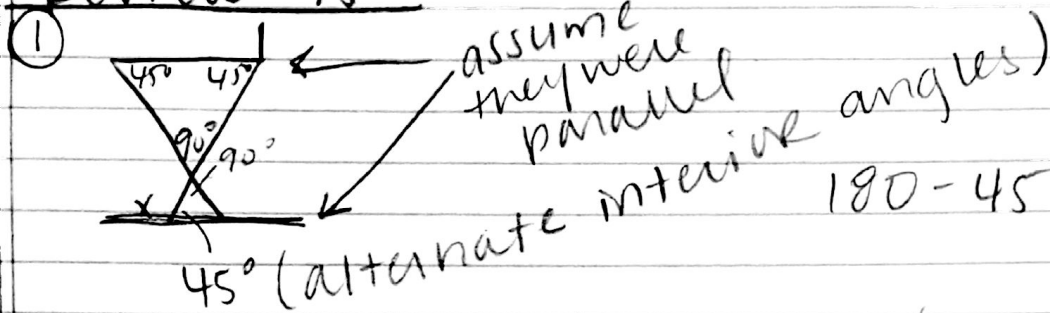
$x = 70 \times 2$   
 $x = 140^\circ$

$y = 220/2$   
 $y = 110^\circ$

④  $\angle ACD = 54^\circ$  &  $\angle BDC = 28^\circ$   
 The two triangles are similar through AA theorem

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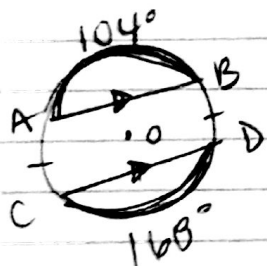
## Review #15



② Arc Length =  $\left(\frac{\theta}{360}\right) 2\pi r = \left(\frac{120}{360}\right) 2(3.14)(125)$   
 $= \boxed{261.7 \text{ yd}}$

③ Area of Sector =  $\left(\frac{\theta}{360}\right) \pi r^2 = \left(\frac{60}{360}\right) \pi (6000)^2$   
 $= \boxed{18,849,555.9 \text{ km}^2}$

- |                                       |   |
|---------------------------------------|---|
| ① $AB \parallel DC$                   | ① given   |
| ② $DC \cong DC$                       | ② reflexive property                                      |
| ③ $\widehat{AD} \cong \widehat{BC}$   | ③ parallel chords intersect congruent arcs                |
| ④ $AD \cong BC$                       | ④ corresponding chords of 2 equal arcs                    |
| ⑤ $ABCD$ is an isosceles trapezoid    | ⑤ def. of an isosceles trapezoid one base $\cong$ another |
| ⑥ $\angle ADC \cong \angle BCD$       | ⑥ bases of an isosceles trap are $\cong$                  |
| ⑦ $\triangle ACD \cong \triangle BDC$ | ⑦ SAS   |



$$104 + 168 = 272$$

$$360 - 272 = 88 / 2 = \boxed{44^\circ}$$

## Perfume Packaging

Link to answers on my website!!  
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