

1.2 and 1.3

Tuesday, August 16, 2016 7:34 AM

convert to degrees, minutes, and seconds: $46\frac{11}{18}^\circ$

$$\frac{11}{18}^\circ \times \frac{60'}{1^\circ} = 36\frac{2}{3}' \quad \frac{2}{3}' \times \frac{60''}{1'} = 40''$$

$46^\circ 36' 40''$

convert to degrees: $37^\circ 15' 45''$

$$45'' \times \frac{1'}{60''} = \frac{3'}{4} \quad 15\frac{3}{4}' = \frac{63'}{4} \quad \frac{63'}{4} \times \frac{1^\circ}{60'} = \frac{21^\circ}{80}$$

$37\frac{21}{80}^\circ$

simplify: $31^\circ 14' 58''$

$$+ 16^\circ 37' 46''$$

$$\hline 47^\circ 51' 104''$$

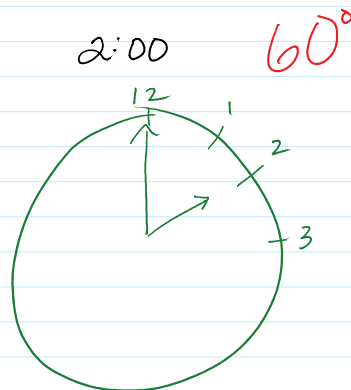
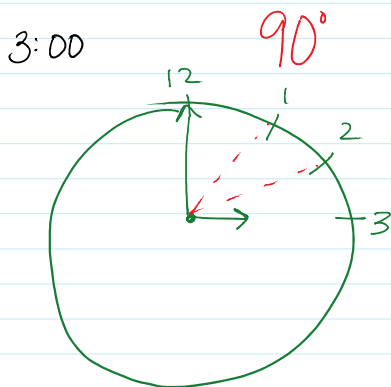
$\rightarrow 47^\circ 52' 44''$

simplify: $179^\circ 59' 60''$

$$- 110^\circ 13' 43''$$

$$\hline 69^\circ 46' 17''$$

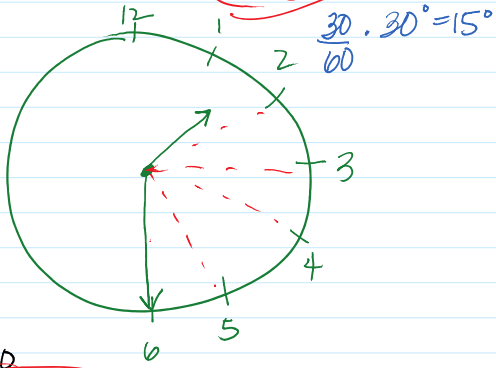
Find the precise angle measure formed by the hands of the clock for the following times.



4:00 120°

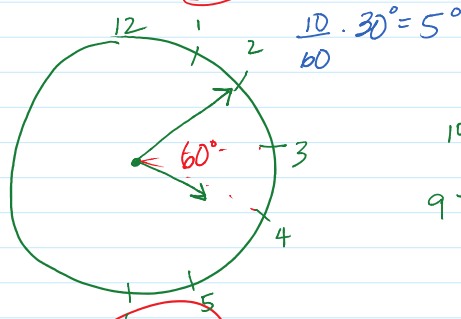
1:30

135°



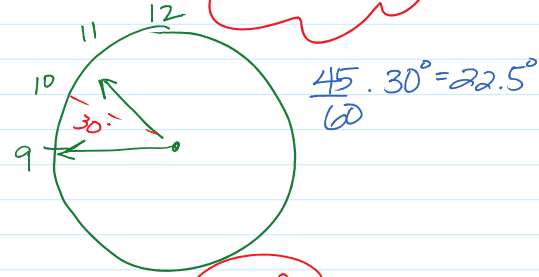
4:10

65°



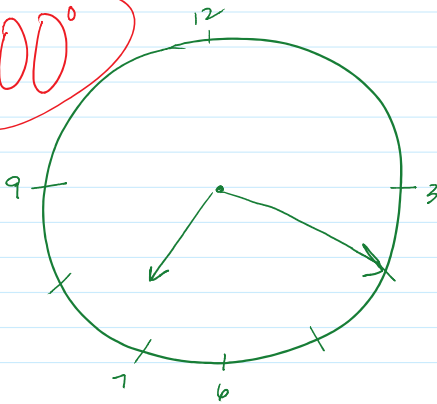
10:45

52.5°



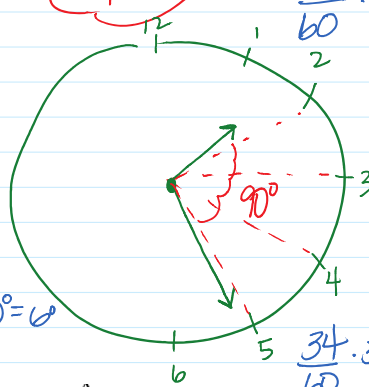
7:20

100°

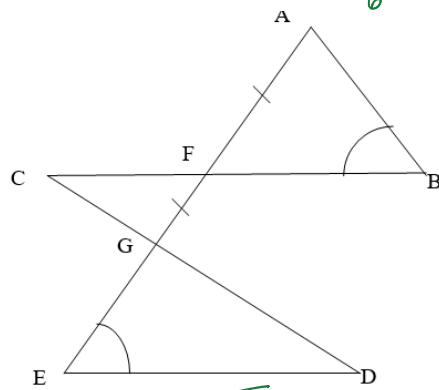
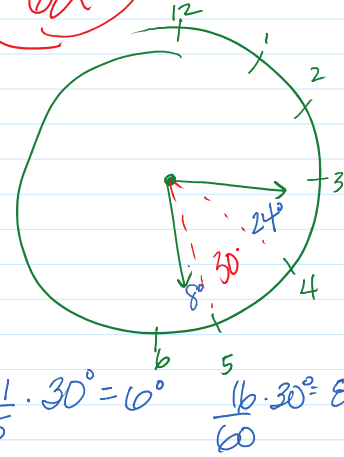


1:26

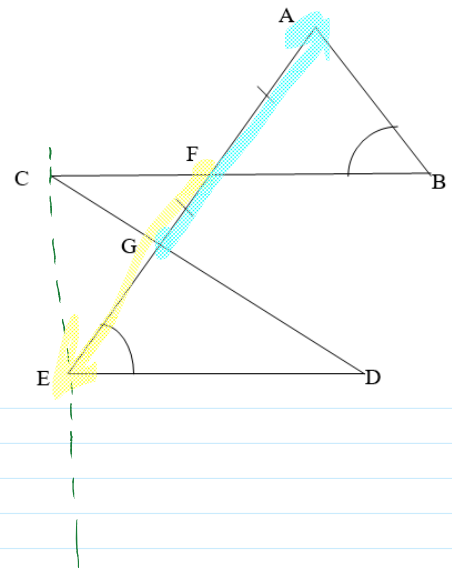
113°



62°



- 1) Point F is between points C and B T
- 2) Point A is between points C and B F
- 3) $\angle A$ is an acute angle F
- 4) $\angle CFB$ is a straight angle T
- 5) \overline{FG} is congruent to \overline{AF} T
- 6) Points C, F, and G are collinear F
- 7) Points C and E are collinear T
- 8) $\angle E$ is congruent to $\angle B$ T
- 9) $\angle A$ is congruent to $\angle B$ F



8) $\sphericalangle E$ is congruent to $\sphericalangle B$ T

9) $\sphericalangle A$ is congruent to $\sphericalangle B$ F

10) $\overline{FE} \cap \overline{GA} = \overline{GF}$ T