

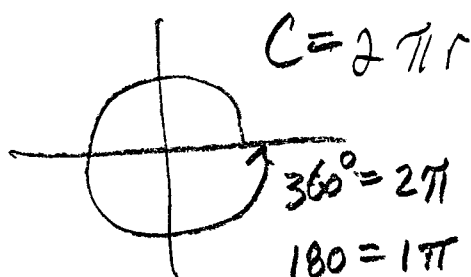
Algebra 2

$$\frac{12 \text{ in}}{1 \text{ ft}} \text{ or } \frac{1 \text{ ft}}{12 \text{ in}}$$

Weds.
11-28-12

C/NS
Notes

$$35 \text{ ft} \cdot \frac{12 \text{ in}}{1 \text{ ft}} = \boxed{420 \text{ in}}$$



$$\frac{180 \text{ deg}}{1 \pi \text{ rad}} \text{ or } \frac{\pi}{180 \text{ deg}}$$

$$(26) -\frac{4\pi}{3} \text{ rad} \cdot \frac{60}{180} \frac{\text{deg}}{\pi \text{ rad}} = \boxed{-240 \text{ deg}}$$

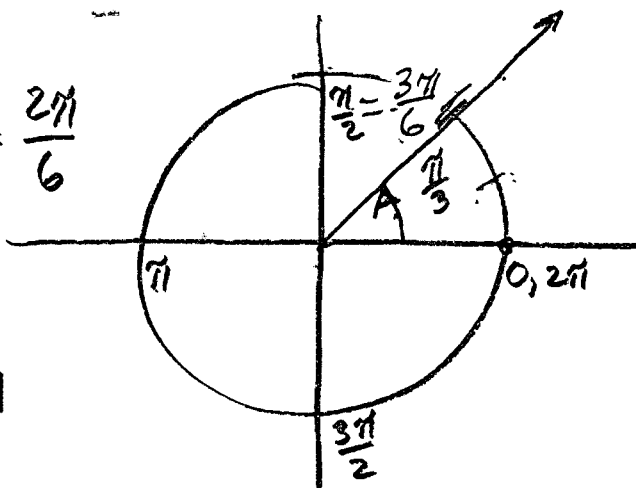
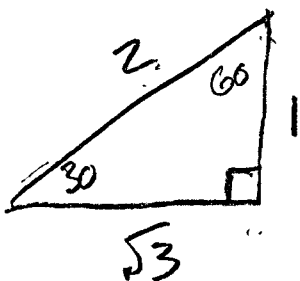
$$(22) -315 \text{ deg} \cdot \frac{\pi \text{ rad}}{180 \text{ deg}} = -\frac{35}{20} \pi$$

$$\boxed{-\frac{7}{4} \pi} \text{ rad}$$

CONVERTING RADIANS/DEGREES

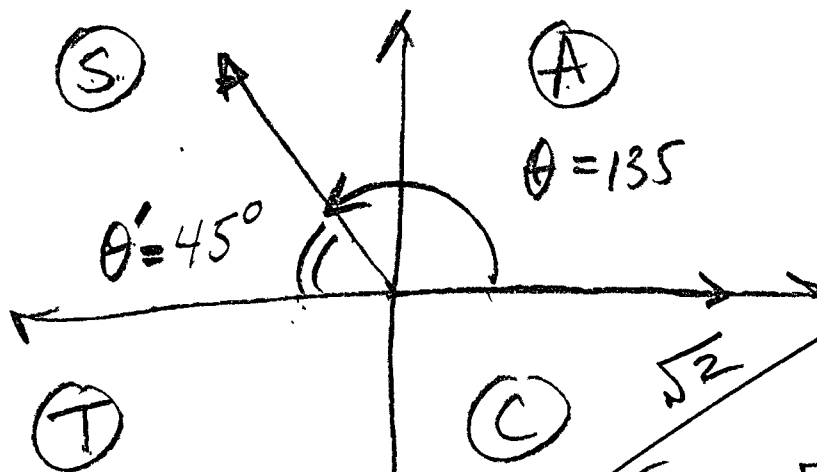
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(30) EXACT $\sec \frac{\pi}{3} = \frac{2\pi}{6}$



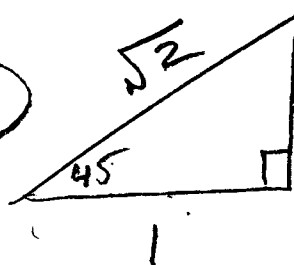
$$\cos = \frac{a}{h} \therefore \sec \frac{h}{a} = \frac{2}{1} = 2 = \sec \frac{\pi}{3}$$

(32) EXACT $\sin, \cos, \tan$ of 135°



SOH CAHTOA
ASTC

$$\begin{aligned}\sin 135 &= \sin 45 = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \\ \cos 135 &= -\cos 45 = -\frac{\sqrt{2}}{2} \\ \tan 135 &= -\tan 45 = -1\end{aligned}$$



⑥
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Salesman $\Rightarrow$ visits 6 of 14 companies
How many ways to plan?

$${}_{14}P_6 = \frac{14!}{(14-6)!} = 14 \cdot 13 \cdot 12 \cdot 11 \cdot 10 \cdot 9$$

$$= \boxed{2,162,160}$$

ways to plan