

Algebra 2 Tues. 12-18-12 CLASS NOTES

① 3 diff. letters (26)

ID 1

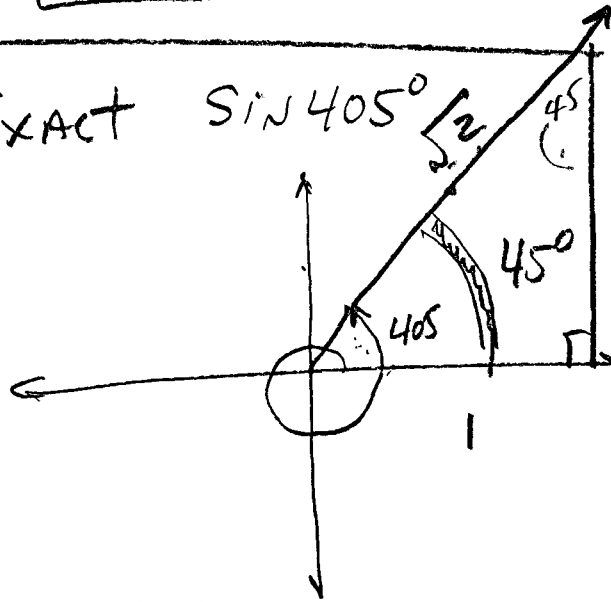
$$\underline{26} \cdot \underline{25} \cdot \underline{24}$$

$${}_{26}P_3 = \frac{26!}{(26-3)!}$$

$$= \boxed{15600}$$

⑤ ID 2

EXACT $\sin 45^\circ$

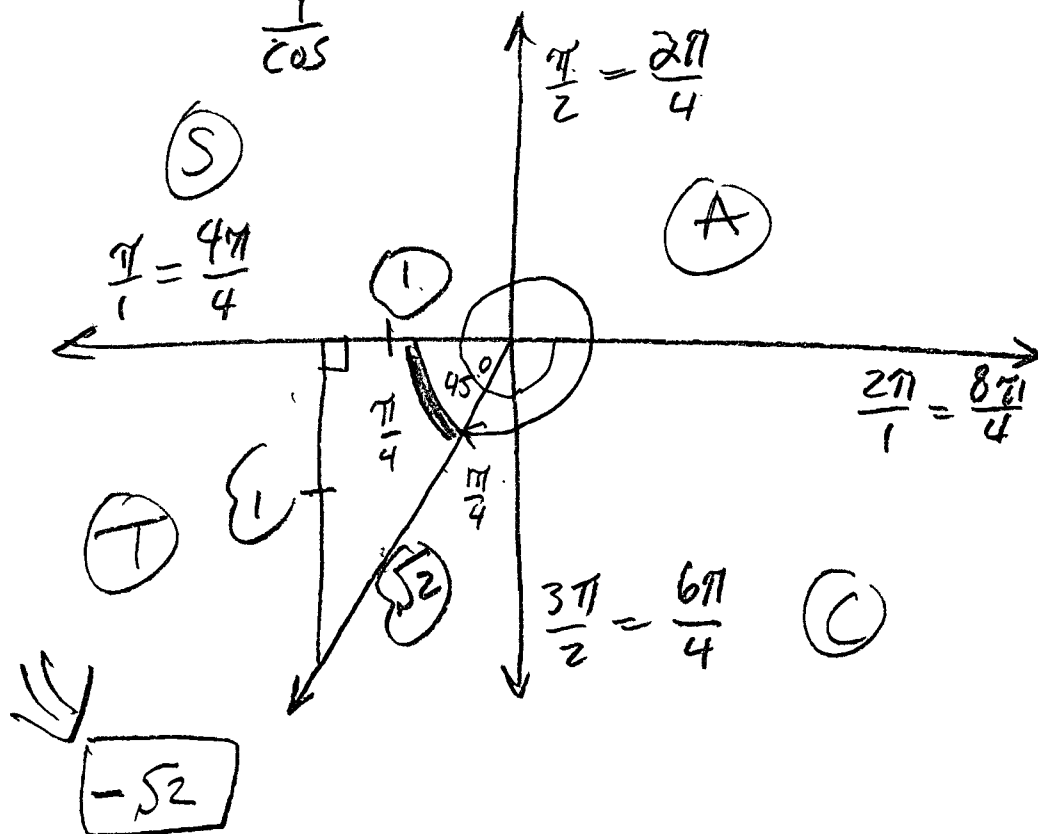


$$\sin 45 = \frac{1}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}}$$

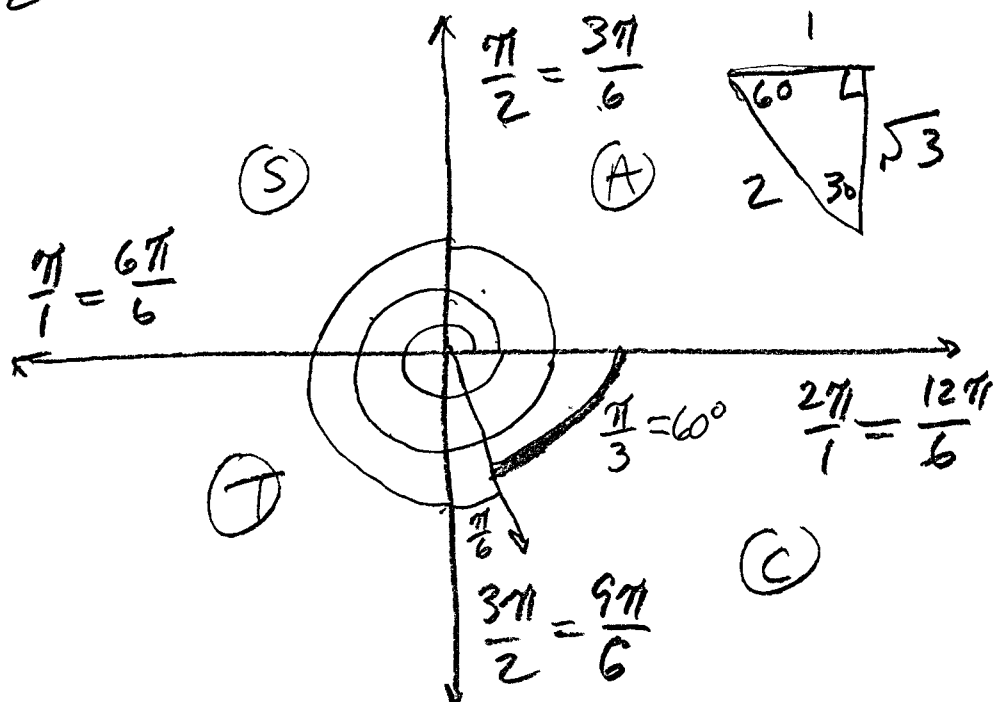
⑩ EXACT SEC - $\frac{11\pi}{4}$

$\Downarrow$

$\frac{1}{\cos}$

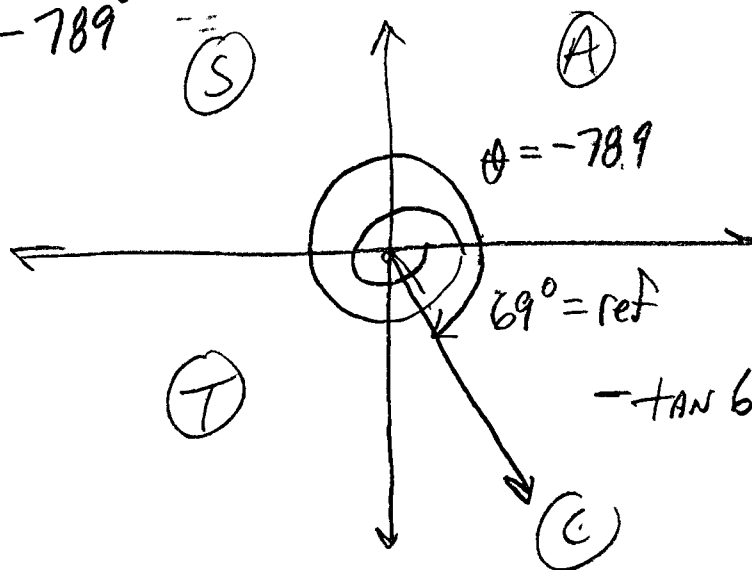


⑪ EXACT $\cos \frac{17\pi}{3} = \frac{34\pi}{6} = \boxed{\frac{1}{2}}$
ID2



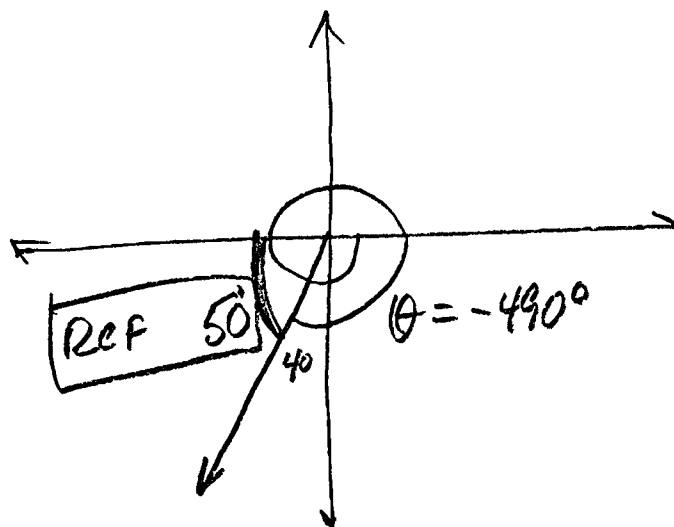
⑫ $\cot -789^\circ$ (S)

$\Downarrow$
 $\frac{1}{\tan}$



$-\tan 69 = -(2.6051)$
 $= \boxed{-2.6051}$
cot

(20) Ref $\angle -490^\circ$
ID 2



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

(EX) $\frac{7}{63} \text{ deg} \cdot \frac{\pi \text{ rad}}{180 \text{ deg}} = \frac{7\pi}{20} \text{ rad}$

(EX) $5\pi \text{ rad} \cdot \frac{180 \text{ deg}}{\pi \text{ rad}} = \boxed{900 \text{ deg}}$

$$(44) \quad h(x) = \frac{-9-7x}{3}$$

$$\Downarrow$$

$$y = \frac{-9-7x}{3}$$

$$h^{-1}(x)$$

$$x = \frac{-9-7y}{3}$$

$$3x = -9 - 7y$$

$$\frac{3x+9}{-7} = \frac{-7y}{-7}$$

$$\boxed{-\frac{(3x+9)}{7} = y \quad \text{or} \quad -\frac{3}{7}x - \frac{9}{7} = y}$$

$$\underline{\underline{\text{or} \quad \boxed{\frac{-3x-9}{7} = y}}}$$

(40) $\log_2 \frac{1}{32} = ?$

$$\boxed{2^{-5}}$$

(56) $5 \log_2 a - 25 \log_2 b$ CONDENSE

$$\log_2(a^5) - \log_2(b^{25})$$

$$\boxed{\log_2\left(\frac{a^5}{b^{25}}\right)}$$

(54) $\log_2 z + \frac{\log_2 x}{3} + \frac{\log_2 y}{3}$

$$\log_2 z + \log_2 x^{\frac{1}{3}} + \log_2 y^{\frac{1}{3}}$$

$$\log_2 (z)(x^{\frac{1}{3}})(y^{\frac{1}{3}})$$

$$\log_2 z \sqrt[3]{xy}$$

$$\boxed{\log_2 z \sqrt[3]{xy}}$$