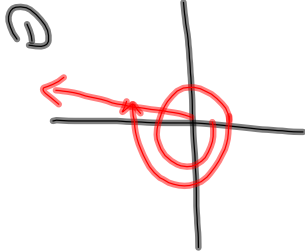1. Sketch the following angle: -545°

2. Determine a negative angle co-terminal with 200°.

3. Determine the principal angle of -78 453°.

$\boxed{\dfrac{\sqrt{10}}{3}}$ 4. If $\sec\theta = -\sqrt{10}$ and $\sin\theta > 0$, determine the value of $\csc\theta$.

exact (No calculator)

1

2/ $200° - 360°$
$= -160°$

3/ $-78\,453$
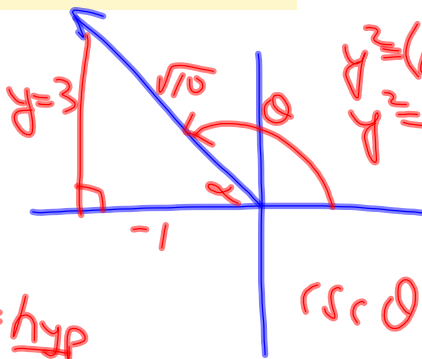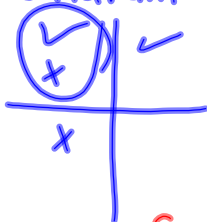$\div 360$
-217.925
$+217$
-0.925
$\times 360$
-333
$+360°$
$\boxed{270}$

$\sec\theta$

4. If $\sec\theta = -\sqrt{10}$ and $\sin\theta > 0$, determine the value of $\csc\theta$.

Quadrant??

$y=3$ $\sqrt{10}$ θ -1 α

$y^2 = \left(\sqrt{10}\right)^2 - (1)^2$
$y^2 = 9$

$\sec\theta = \dfrac{hyp}{adj}$

$\sec\theta = \dfrac{-\sqrt{10}}{1}$

$= \dfrac{r}{x}$

$\csc\theta = \dfrac{\sqrt{10}}{3}$

-1 -3 α

Applications of Right Angle Trigonometry...

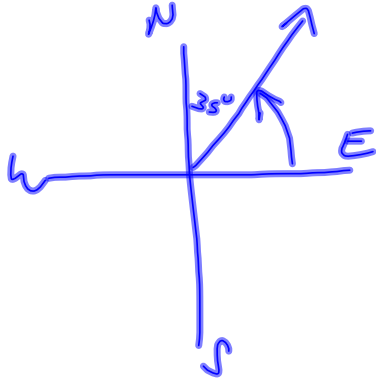Great set of problems to demonstrate some applications of trigonometry...
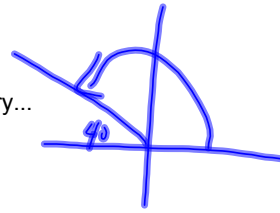
Page 84 - 87

#9, 10, 11, 13, 14, 15, 17, 19, 20, 24

You have one hour to get through as many of these problems as possible...GO!!

N 35° E

N

35°

E

S 40 W

W

40°

#14)

72°

x 30° 30° x