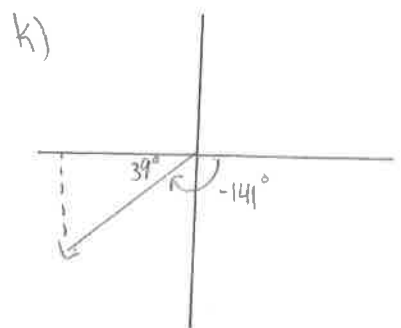
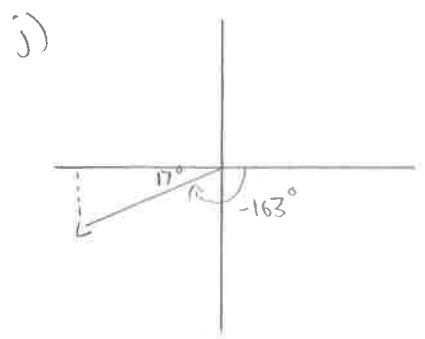
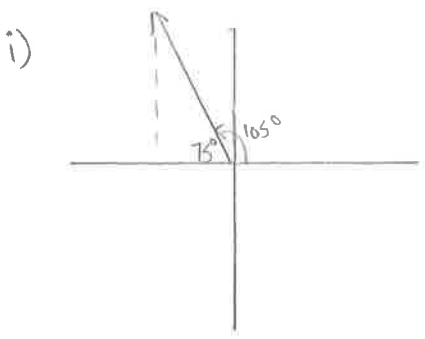
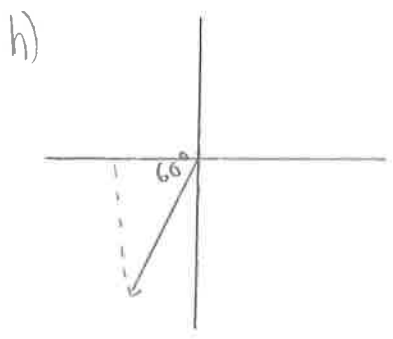
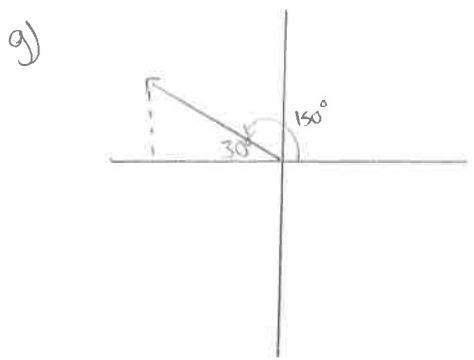
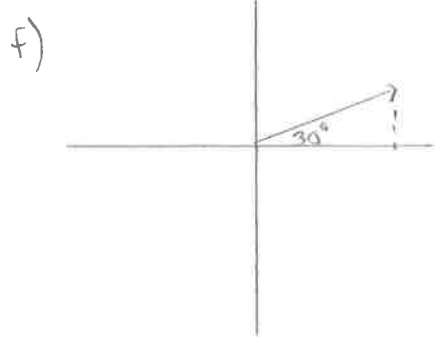
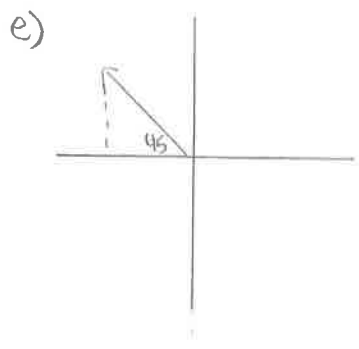
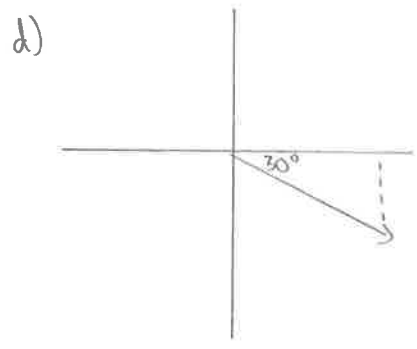
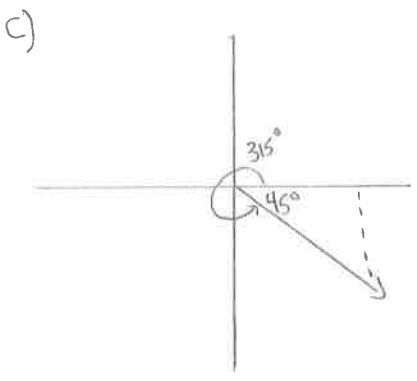
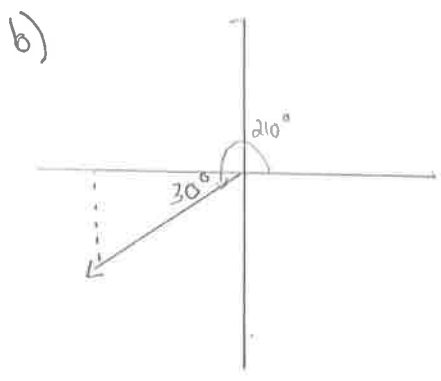
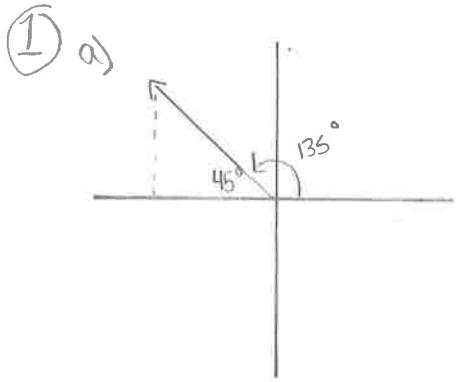
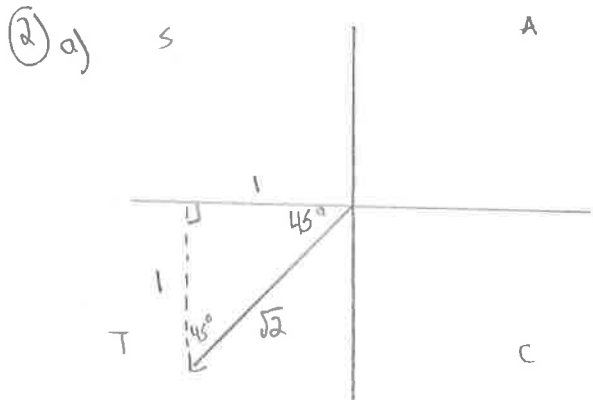
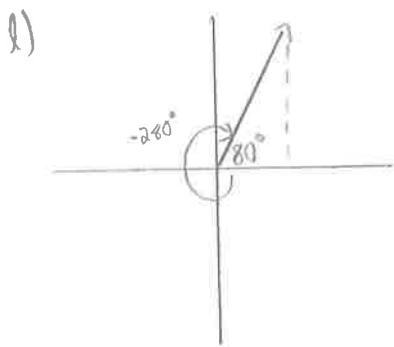
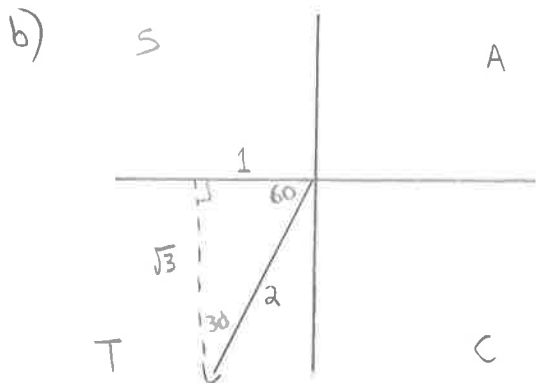


SPECIAL ANGLES 2
WORKSHEET SOLUTIONS

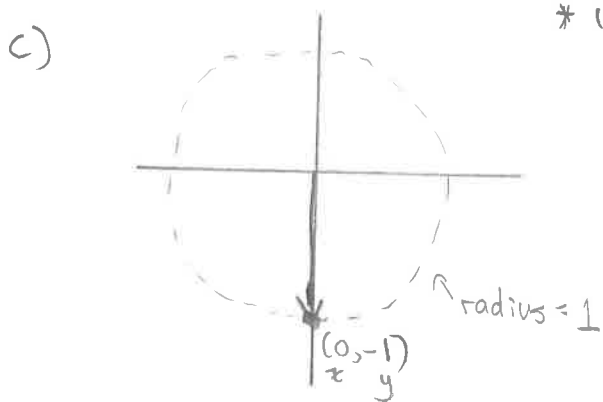




$$\begin{aligned} \sin 225 &= -\sin 45 \\ &= -\frac{1}{\sqrt{2}} \end{aligned}$$



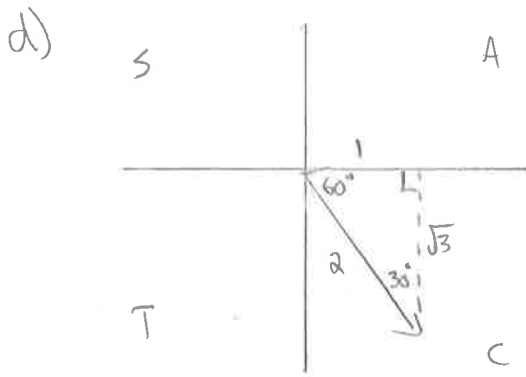
$$\begin{aligned} \cos 240 &= -\cos 60 \\ &= -\frac{1}{2} \end{aligned}$$



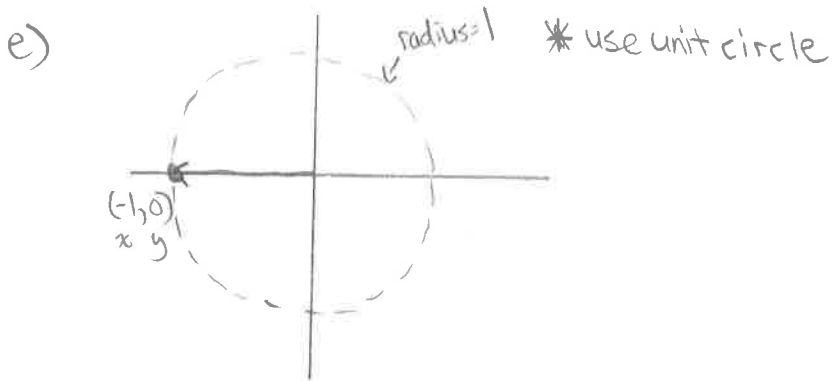
* Use unit circle.

$$\sin \theta = \frac{y}{r}$$

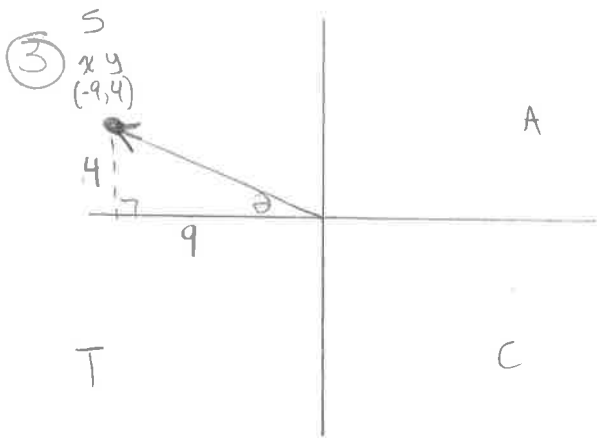
$$\begin{aligned} \sin 270 &= \frac{y}{r} \\ &= \frac{-1}{1} \\ &= -1 \end{aligned}$$



$$\begin{aligned}\tan 300 &= -\tan 60 \\ &= -\frac{\sqrt{3}}{1} \\ &= -\sqrt{3}\end{aligned}$$



$$\begin{aligned}\cos \theta &= \frac{x}{r} \\ \cos 180 &= \frac{-1}{1} \\ \cos 180 &= -1\end{aligned}$$



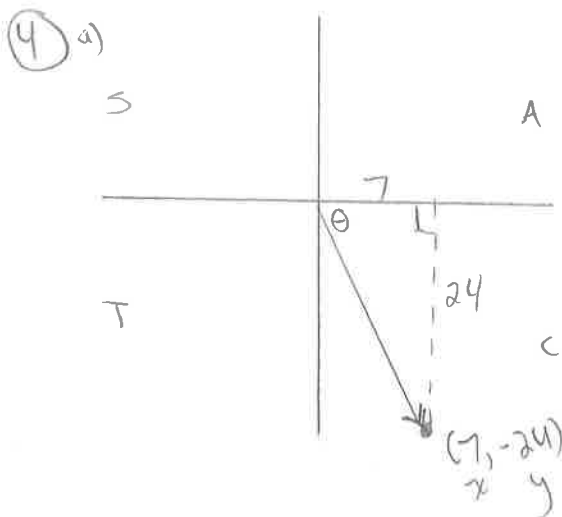
b) $\tan \theta = \frac{y}{x}$

c) $\theta = 180 - 24 = 156^\circ$

$$\tan \theta = \frac{4}{9}$$

$$\theta = \tan^{-1}\left(\frac{4}{9}\right)$$

$$\theta \approx 24^\circ$$



b) $\tan \theta = \frac{y}{x}$

c) $\theta = 360 - 74$

$$\tan \theta = \frac{24}{7}$$

$$\theta = 286^\circ$$

$$\theta = \tan^{-1}\left(\frac{24}{7}\right)$$

$$\theta \approx 74^\circ$$

