

T-2 Worksheet

Name _____

Complete the table with exact values (no decimal approximations). Draw triangles where needed.

θ	$\sin\theta$	$\cos\theta$	$\tan\theta$	$\cot\theta$	$\sec\theta$	$\csc\theta$
30°						
45°						
60°						
120°						
135°						
150°						
210°						
225°						
240°						
300°						
315°						
330°						

The terminal side of an angle θ , in standard position passes through the given point. Sketch the angle and evaluate $\sin\theta$ and $\tan\theta$. Then find the value for θ for $0^\circ < \theta < 360^\circ$.

1. $(2\sqrt{3}, 2)$
2. $(-3\sqrt{3}, 3)$
3. $(3, 3\sqrt{3})$
4. $(2, -2\sqrt{3})$
5. $(-3, -3)$

θ is in standard position with **P** on the terminal side. r is the distance from $(0,0)$ to **P**. Find the (x,y) coordinates of **P**.

6. $\theta=225^\circ, r=1$
7. $\theta=150^\circ, r=4$
8. $\theta=315^\circ, r=1$
9. $\theta=60^\circ, r=5$