

Unit 5 – Trigonometric Functions

Speed Quiz (Practice 2): Angles of Rotation, Trig Ratios and Special Triangles **(No Calculators!!)**

1. Draw the **ANGLE OF ROTATION**. Determine the **RELATED ACUTE ANGLE**. Determine the **trig ratios exactly** (using SOH CAH TOA and CAST) (1 point each)

a) $\tan(300^\circ)$

b) $\sin(240^\circ)$

c) $\cos(315^\circ)$

d) $\tan(60^\circ)$

e) $\sin(330^\circ)$

f) $\cos(315^\circ)$

2. For $\theta \in [0^\circ, 360^\circ]$, determine the angles of rotation given the trig ratio: (2 marks each)

a) $\sin(\theta) = -\frac{1}{2}$

b) $\cos(\theta) = \frac{\sqrt{3}}{2}$

c) $\tan(\theta) = -1$

d) $\sin(\theta) = -0.3456$