

Name _____

Unit 5 – Trigonometric Ratios

Speed Quiz (Practice 1): Angles of Rotation and Trig Ratios

(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) $\tan(240^\circ)$

b) $\sin(315^\circ)$

c) $\cos(135^\circ)$

d) $\sin(30^\circ)$

e) $\cos(-225^\circ)$

f) $\tan(-150^\circ)$

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

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

b) $\tan(\theta) = -\frac{1}{\sqrt{3}}$

c) $\sin(\theta) = \frac{1}{\sqrt{2}}$

d) $\sec(\theta) = -2$