

Name _____

Unit 5 – Trigonometric Ratios

Speed Quiz (Practice 3): 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) $\tan(120^\circ)$

b) $\sec(45^\circ)$

c) $\sin(300^\circ)$

d) $\cos(225^\circ)$

e) $\csc(-210^\circ)$

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

c) $\tan(\theta) = -\sqrt{3}$

d) $\sin(\theta) = -0.5647$ (use a calculator)