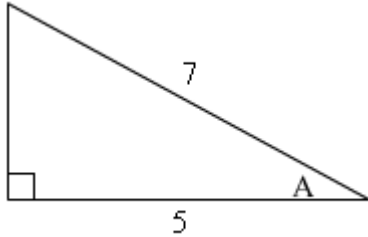


MTH 178 Section 2.1 and 2.2 Quiz

1. Find the value of all six trigonometric functions of angle A. Note: Triangle is not drawn to scale. (1 pt each)



$$\sin A = \frac{2\sqrt{6}}{7}$$

$$\cos A = \frac{5}{7}$$

$$\tan A = \frac{2\sqrt{6}}{5}$$

$$\csc A = \frac{7\sqrt{6}}{12}$$

$$\sec A = \frac{7}{5}$$

$$\cot A = \frac{5\sqrt{6}}{12}$$

2. Find the exact values for each of the following (3 pts each)

a. $\sin 45^\circ = \frac{\sqrt{2}}{2}$

b. $\sec 60^\circ = 2$

c. $\tan 30^\circ = \frac{\sqrt{3}}{3}$

3. Find θ if θ is between 0° and 90° . **Write your answer to the nearest minute.** (3 pts each)

a. $\cos \theta = 0.5490$ $\theta = 56^\circ 42'$

b. $\cot \theta = 1.5941$ $\theta = 32^\circ 6'$