

Unit 5 - Trigonometry

Name: Key

Directions: Please DO NOT write on the papers at each station. Record the Station number in the table below and **SHOW ALL WORK**. Label the problems in the workspace as well, so I can identify your work.

Station #	Workspace
#1	$3. x = \sqrt{14}$ $4. x = 5\sqrt{2}$ $5. \sqrt{22}$ $6. x = 14$ $y = 16$ $7. x = 2$ $8. x = 15$ $y = 15$
#2	$1. x = 8$ $2. x = 20$ $3. x = \sqrt{21}$ OR $x = 4.58$ $4. x = \sqrt{881}$ OR $x = 29.68$ $5. r = 5$
#3	$6. x = 4.35$ $7. x = 44.90^\circ$ $8. x = 9.39$ $9. b = 8.58$ $10. x = 13.89$

#4	<p>1. $x=4$ $y=4\sqrt{3}$</p> <p>2. $x=48$ $y=24\sqrt{3}$</p> <p>3. $x=12\sqrt{3}$ $y=12$</p> <p>4. $x=\frac{7\sqrt{3}}{3}$ $y=\frac{14\sqrt{3}}{3}$</p> <p>5. $x=27\sqrt{3}$ $y=54$</p> <p>6. $x=2\sqrt{3}$ $y=4\sqrt{3}$</p>
#5	<p>1. 344.72 ft</p> <p>2. $3\sqrt{3}$</p> <p>3. $x=12.02^\circ$</p> <p>4. $5\sqrt{2} \approx 7.07 \text{ m}$</p>
#6	<p>d) $x=59.30\text{m}$ $y=78.50\text{m}$</p> <p>e) $a=71.53\text{m}$ $b=88.11\text{m}$</p> <p>f) 34° and 27°</p>