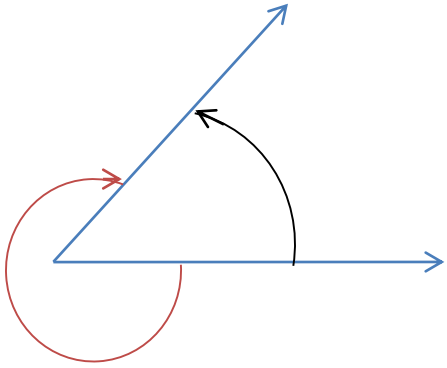
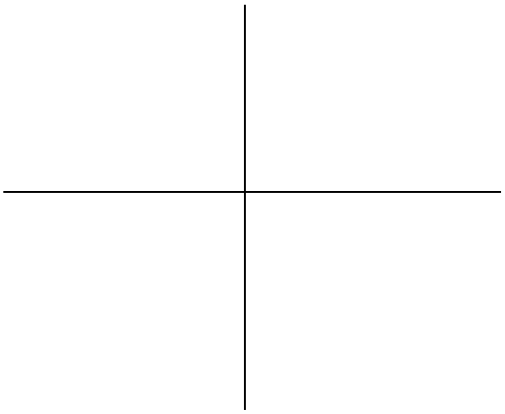
Math 132 – Trigonometry
Section 2.1 Video Worksheet – 9th Edition

Name_____

Label each line



Draw the Standard Position



Define a right angle and define a straight angle

How many radians is a revolution? How many radians do you get from 360˚?

How many degrees is a revolution? How many minutes is a degree? How many seconds is a minute?

Convert these angles in degrees to radians, or these radians into degrees

- 120˚
- 270˚
- 5π/3
- 4π
- 330˚
- -225˚
- π/12
- 7π/4
- -60˚
- 240˚
- -π/2
- 11π/6

Covert these degrees to radians in decimal form, round up to the nearest hundredth

- 17˚
- -40˚
- 125˚
- -67˚

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Find the arc length of a sector with the given properties

- R=10m Θ=1/2 radians
- R=2 inches Θ=30˚
- R=6ft Θ=2 radians
- R=3m Θ=120˚

Find the area of a sector with the given properties

- R=10m Θ=1/2 radians
- R=2 inches Θ=30˚
- R=6ft Θ=2 radians
- R=3m Θ=120˚

Find length s and area A