

Name \_\_\_\_\_ Group \_\_\_\_\_

/36

### Trigonometry Basics 2

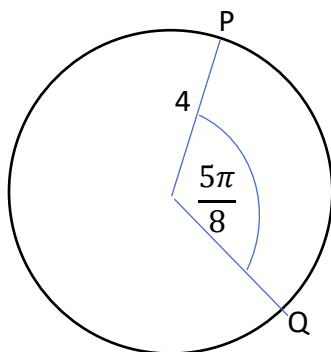
1. Convert the following angle measurements from degrees to radians.

- a)  $152^\circ$                       b)  $37^\circ$                       c)  $520^\circ$                       d)  $210^\circ$

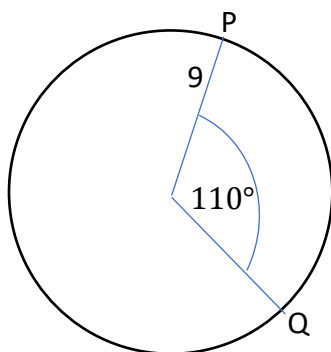
2. Convert the following angle measurements from radians to degrees.

- a)  $\pi$                       b)  $\frac{5\pi}{7}$                       c) 5.08                      d) 0.72

3. Determine the arc length of PQ



4. Determine the arc length of PQ



5. Given  $\sin \theta = \frac{3}{11}$ , determine all possible values of  $\theta$  where  $0^\circ \leq \theta$

6. Given  $\cos \theta = -0.85$ , determine all possible values of  $\theta$  where  $0 \text{ rad} \leq \theta$

7. Find all possible values for the following trig points:

a)  $P\left(\frac{\sqrt{3}}{2}, ?\right)$

b)  $P\left(?, \frac{\sqrt{2}}{2}\right)$

c)  $P\left(\frac{7}{8}, ?\right)$

d)  $P\left(?, \frac{3}{7}\right)$