Practice worksheet | Trigonometry

# Arc length and sector area

Name: _____ Date: _____

6 questions | 18 marks

**1.** Find arc length for r=10 cm, θ=$\pi$/5. [3 marks]

**2.** Find sector area for r=5 m, θ=1.2 rad. [3 marks]

**3.** Find the exact arc for radius 8 cm and angle 135°. [3 marks]

**4.** A sector has radius 7 cm and arc 14 cm. Find angle and area. [3 marks]

**5.** Find the full perimeter of a sector r=4 cm, $\theta=\pi/2$. [3 marks]

**6.** A 12 m² sector has radius 4 m. Find its angle in radians and degrees to one decimal place. [3 marks]