Math worksheet on *'Geometry of Circles - Sector Area - Equation to Radius and Angle (Level 2)'*. Part of a broader unit on *'Geometry - Intermediate - Practice'*

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1 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 1}{6}$$

a	r=2, angle=90º
b	r=2, angle=45º
c	r=1, angle=15º
d	r=1, angle=90º
e	r=3, angle=75º
f	r=1, angle=60º

2 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 25}{4}$$

a	r=3, angle=30º
b	r=1, angle=75º
c	r=5, angle=90º
d	r=8, angle=135º
e	r=3, angle=135º
f	r=4, angle=45º

3 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 9}{3}$$

a	r=4, angle=150º
b	r=1, angle=165º
c	r=5, angle=75º
d	r=2, angle=105º
e	r=3, angle=120º
f	r=7, angle=60º

4 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 1}{3}$$

a	r=4, angle=150º
b	r=4, angle=105º
c	r=1, angle=45º
d	r=0, angle=135º
e	r=1, angle=120º
f	r=4, angle=60º

5 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 25}{6}$$

a	r=5, angle=15º
b	r=4, angle=15º
c	r=2, angle=15º
d	r=4, angle=45º
e	r=1, angle=30º
f	r=5, angle=60º

6 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 25}{2}$$

a	r=0, angle=165º
b	r=8, angle=195º
c	r=4, angle=195º
d	r=2, angle=180º
e	r=0, angle=195º
f	r=5, angle=180º

7 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 16}{12}$$

a	r=3, angle=30º
b	r=1, angle=45º
c	r=4, angle=30º
d	r=8, angle=60º
e	r=8, angle=15º
f	r=6, angle=60º