ANGLE RELATIONSHIPS & TRIANGLES
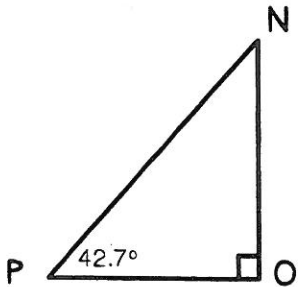
Answer each of the questions below. Be sure to show your thinking.

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2. In triangle QRS, the measure of angle RSQ is 29.1°, and the measure of angle QRS is 80°. What is the measure of angle SQR?
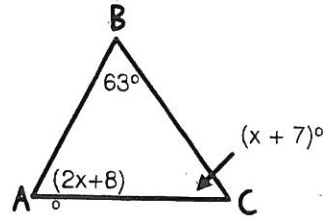
A. 109.1°
B. 71.1°
C. 150.9°
D. 70.9°

3. Triangle NOP is shown below. What is the measure of ∠N?
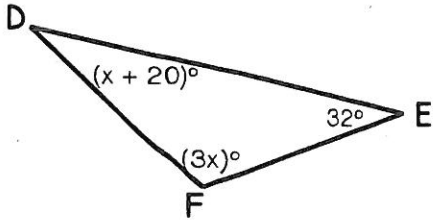
A. 47.3°
B. 137.3°
C. 48.8°
D. 132.8°

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4. Set up and solve an equation to find the measure of each missing angle.

Equation: _____

∠A: _____

∠B: _____

∠C: _____

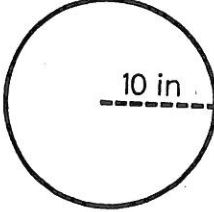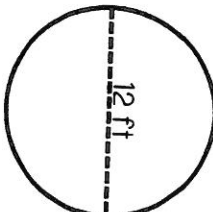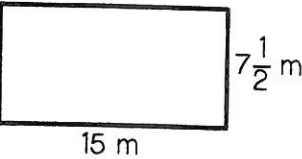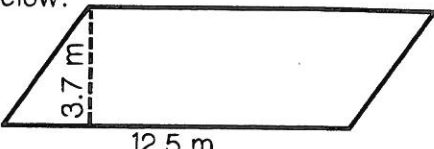**5.** Set up and solve an equation to find the measure of each missing angle.
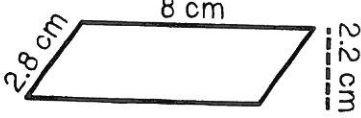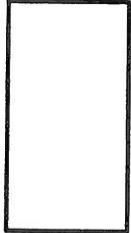

Equation: _____

∠D: _____

∠E: _____

∠F: _____

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4. A play train travels around a Christmas tree in a circle. The train track measures 6 feet in diameter. What is the distance that the train travels?

5. A tree is sold based on the circumference of the tree. If a tree has a radius of 4 inches, then what is the circumference of the tree?

CIRCLE	CIRCUMFERENCE	AREA
1. 10 in radius = _____ diameter = _____	formula: _____ circumference: _____	formula: _____ area: _____
2. 12 ft radius = _____ diameter = _____	formula: _____ circumference: _____	formula: _____ area: _____

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1. Determine the area of the rectangle below.

$7\frac{1}{2}$ m

15 m

Formula: _____

Plug in Values: _____

Area: _____

2. Determine the area of the parallelogram below.

3.7 m

12.5 m

Formula: _____

Plug in Values: _____

Area: _____

3. Determine the area of the parallelogram below.

8 cm

2.8 cm

2.2 cm

Formula: _____

Plug in Values: _____

Area: _____

4. Determine the area of the rectangle below.

$4\frac{1}{3}$ in

$2\frac{1}{2}$ in

Formula: _____

Plug in Values: _____

Area: _____