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MAth on the Fly!



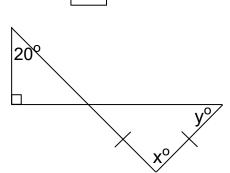
NAME: _____

DATE: _____

Finding Angles Inside and Outside of Polygons

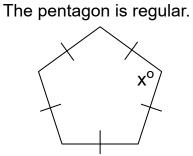
Find the unknown angles in each diagram below.

1.



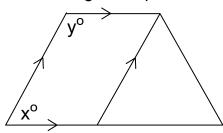
2.

. . .

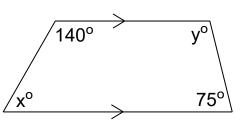


3.

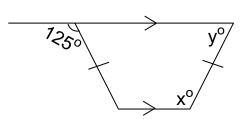
The triangle is equilateral.



4.

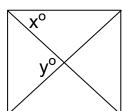


5.

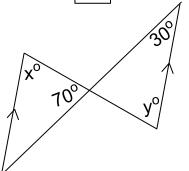


6.

The figure is a square.

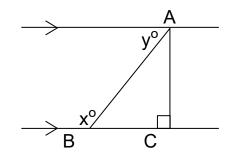


7.

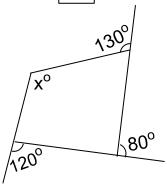


8.

$$\overline{AB}$$
 = 14 cm, \overline{BC} = 7 cm, \overline{AC} = $7\sqrt{3}$ cm



9.



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SOLUTIONS

$$1 \cdot x = 40^{\circ}, y = 70^{\circ}$$

$$2 \cdot x = 108^{\circ}$$

$$3.$$
 $x = 60^{\circ}, y = 120^{\circ}$

$$4 \cdot x = 40^{\circ}, y = 105^{\circ}$$

$$5 \cdot x = 125^{\circ}, y = 55^{\circ}$$
(The trapezoid is isosceles)

$$6 \cdot x = 45^{\circ}, y = 90^{\circ}$$

$$7 \cdot x = 80^{\circ}, y = 80^{\circ}$$