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Extra Practice

inductive

In Exercises 1–4, describe the pattern. Then write or draw the next two numbers, letters, or figures.

1. 20, 19, 17, 14, 10, ...

$-1, -2, -3, -4, -5, -6$

2. 2, -3, 5, -7, 11, ...

$-13, +17$

Δ prime
+/-

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5. the sum of two negative integers

$$-8 + -12 = -20$$

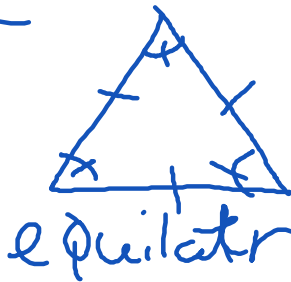
$$-5 + -2 = -7$$

always = -integer

9. If a triangle has equal side lengths, then each interior angle measure is 60° . $\triangle ABC$ has equal side lengths.

deductive

$$\frac{180}{3} = 60^\circ$$



$\triangle ABC = \angle's$
each 60°

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Extra Practice (algebraic proof)

In Exercises 1–3, solve the equation. Justify each step.

$$\begin{array}{r}
 1. \quad 3x - 7 = 5x - 19 \\
 \underline{-3x \quad -3x} \\
 -7 = 2x - 19 \\
 12 = 2x \\
 6 = x
 \end{array}$$

Given
 Subtraction Prop.
 Addition Prop.
 Division Prop.

$$2. \quad 20 - 2(3x - 1) = x - 6$$

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Extra Practice