

1. Find the PERIMETER of the geometric figures below. State you solution in STANDARD FORM.

$2(x^2 + 2) + 2(8x - 1)$
 $2x^2 + 4 + 16x - 2$
 $2x^2 + 16x + 2$



$8x - 1$

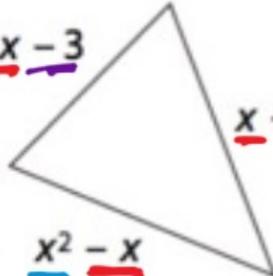
$x^2 + 2$

$2(x + 14) + 2x + 36$
 $2x + 28 + 2x + 36$
 $4x + 64$



$2x + 36$

$6x - 3$
 $x + 12$
 $x^2 - x$



$x^2 + 6x + 9$

$3x + 6$
 $x + 2$



$x + 2$

$2(3x + 6) + 2(x + 2)$
 $6x + 12 + 2x + 4$

$8x + 16$

$(3x + 6)$ ft



The diagram shows a stepped polygon with the following side lengths:

- Left vertical side: $(x + 2)$ ft
- Top-left horizontal side: $3x$ ft
- Top-right horizontal side: $(3x + 6)$ ft
- Right vertical side: $(2x + 1)$ ft
- Bottom horizontal side: $(6x + 6)$ ft

A red box contains the expression $15x + 15$.

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2. Find the missing sides. Use what you know about perimeters and work backwards!

$5x^2 + 9x - 5$

Perimeter
 $5x^2 + 7x + 12$

$(5x^2 + 7x + 12) - (5x^2 + 9x - 5)$

$5x^2 + 7x + 12 - 5x^2 - 9x + 5$

$-2x + 17$

$5x^2 - 3x + 2$

Perimeter
 $14x^2 + 4x - 8$

$(14x^2 + 4x - 8) - (10x^2 - 6x + 4)$

$14x^2 + 4x - 8 - 10x^2 + 6x - 4$

$4x^2 + 10x - 12$

2

$2x^2 + 5x - 6$

- 4) Molly has $(4x + 10)$ dollars and Ron has $(-5x + 20)$ dollars.
- a. How much money do they have altogether?

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3) Bob mowed $(2x^2 + 5x - 3)$ yards on Monday, $(4x - 7)$ yards on Tuesday, and $(3x^2 + 10)$ yards on Wednesday.

a. How many yards did he mow in the three days?

$$(2x^2 + 5x - 3) + (4x - 7) + (3x^2 + 10)$$

$$5x^2 + 9x$$

b. If Bob mowed $14x^2 + 12x - 3$ yards total for the entire week, how many yards did he mow during the rest of the week?

$$(14x^2 + 12x - 3) - (5x^2 + 9x)$$

$$14x^2 + 12x - 3 - 5x^2 - 9x$$

$$9x^2 + 3x - 3$$

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4) Molly has $(4x + 10)$ dollars and Ron has $(-5x + 20)$ dollars.

a. How much money do they have altogether?

$$(4x + 10) + (-5x + 20)$$

$$-x + 30$$

b. How much more money does Molly have than Ron?

$$(4x + 10) - 1(-5x + 20)$$

$$4x + 10 + 5x - 20$$

$$9x - 10$$

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