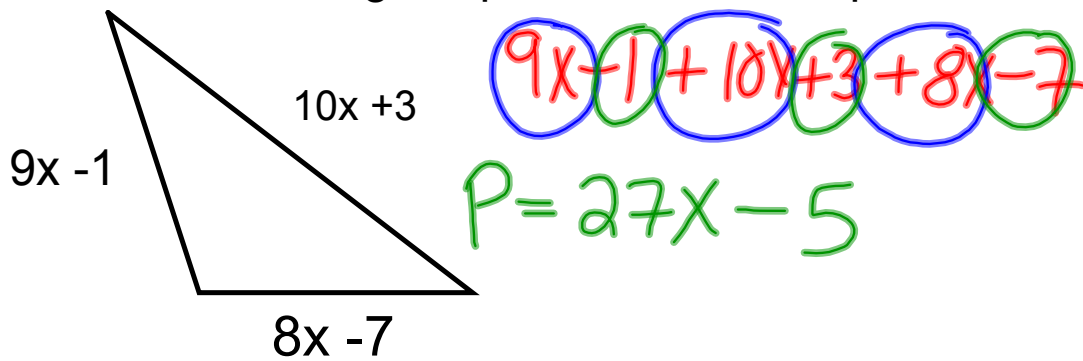


Warm Up



a) Given the following shape determine the perimeter.



b) Determine the perimeter of the triangle when $x = 2$. (Show your work)

$$\begin{aligned} P &= 27x - 5 \\ &= 27(2) - 5 \\ &= 54 - 5 \\ &= 49 \end{aligned}$$

Write a polynomial that matches the description:

variables: x and y, Degree: 8; Trinomial; Constant: -4

$$\begin{array}{l} \checkmark X^8 + y^2 - 4 \\ \checkmark 4X^8 + 5y^4 - 4 \\ \checkmark 13x^5 + 2y^8 - 4 \end{array}$$

What do I add to $16x^2 + 2x - 1$ to get $18x^2 - 5x + 7$ as the result?

1st Method

$$2x^2 - 7x + 8$$

2nd Method

$$(18x^2 - 5x + 7) - (16x^2 + 2x - 1)$$

$$18x^2 - 5x + 7 - 16x^2 - 2x + 1$$

$$2x^2 - 7x + 8$$

Add the following

$$(5x^2 + 12x - 10) + (-7x^2 - 15x + 19)$$

$$5x^2 + 12x - 10 - 7x^2 - 15x + 19$$

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

How many terms are in your final answer?

Subtract the following:

$$(21y^2 - 10y + 14) - (2y + y^2 - 4 + 7x)$$

$$\begin{array}{ccccccc} \textcircled{21y^2} & - & \textcircled{10y} & + & \underline{\underline{14}} & - & \textcircled{2y} & - & \textcircled{y^2} & + & \underline{\underline{4}} & - & \textcircled{7x} \end{array}$$

$$= 20y^2 - 12y - 7x + 18$$

Divide or Multiply

$$\text{a) } (45x^5 - 72x) \div 9x$$

$$= \frac{45x^5 - 72x}{9x}$$

$$= \frac{45x^5}{9x} - \frac{72x}{9x}$$

$$= 5x^4 - 8$$

$$\text{b) } 3x(-7x + 4)$$

$$-21x^2 + 12x$$

Class/Homework

Pg 259 - 261

- #6 a, b, c
- #9 a, b
- #12 a, c
- #15 a, e, h
- ✓ #16 (important)
- #19 a
- #22 a, c, h, k, l
- #26 a, c, e, g
- #28 b, d, f
- ✓ #29 a, b (important)

$$A = 4 \times 5$$

$$A = 20$$



$$L = 4$$

$$W = 5$$

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