

Do Now

If the length of a rectangle in terms of x is $5x^2 + 3x + 6$, and its width is $7x + 9$, what is the perimeter of this rectangle? Don't leave any spaces in your solution.

$$\begin{aligned}
 P &= 2(L+w) \quad 2x+9 \quad \boxed{5x^2+3x+6} \\
 &= 2(5x^2+3x+6) + (7x+9) \\
 &= 2(5x^2+10x+15) \\
 &= \boxed{10x^2+20x+30}
 \end{aligned}$$

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Subtracting Polynomials

1) Distributing my Subtraction
(Change the signs)

2) Add polynomials

$$\begin{aligned}
 &(x^3 + 3x^2 + 5x - 4) - (3x^3 - 8x^2 - 5x + 6) \\
 &+ (-3x^3 + 8x^2 + 5x - 6) \\
 &= -2x^3 + 11x^2 + 10x - 10
 \end{aligned}$$

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$$(\cancel{6x^3} - 2x^2 + \cancel{8x}) + (\cancel{4x^3} + \cancel{11x} + 10)$$

$$2x^3 - 2x^2 + 19x - 10$$

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$$(\cancel{2x^2} - 4) + (\cancel{x^2} + 3x + 3)$$

$$x^2 - 3x - 1$$

$$(8n - 3n^4 + 10n^2) + (\cancel{3n^2} - 11n^4 + 7)$$

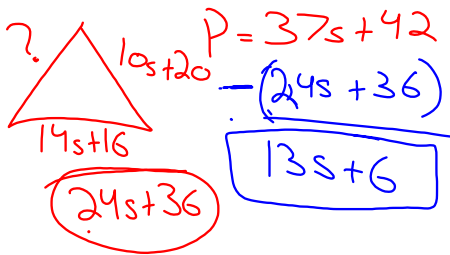
$$-14n^4 + 7n^2 + 8n + 7$$

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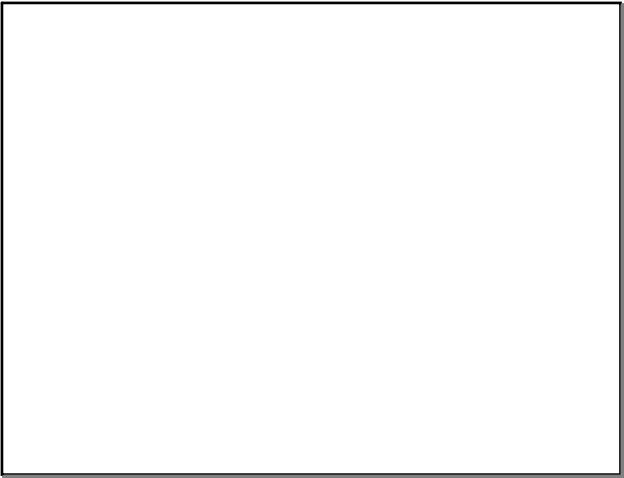
Odds on WorkSheet

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The measure of the perimeter of a triangle is $37s + 42$. It is known that two of the sides of the triangle have measures of $14s + 16$ and $10s + 20$. Find the length of the third side.



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Horizontal lines for writing.

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