

8 - 5

**Adding and Subtracting
Polynomials**

Ex: $(3x^2 - 4x + 8) + (2x - 7x^2 - 5)$

$$-4x^2 - 2x + 3$$

Ex: $(2x^2 + 5) + (3x^2 - 2x + 6)$

$$5x^2 - 2x + 11$$

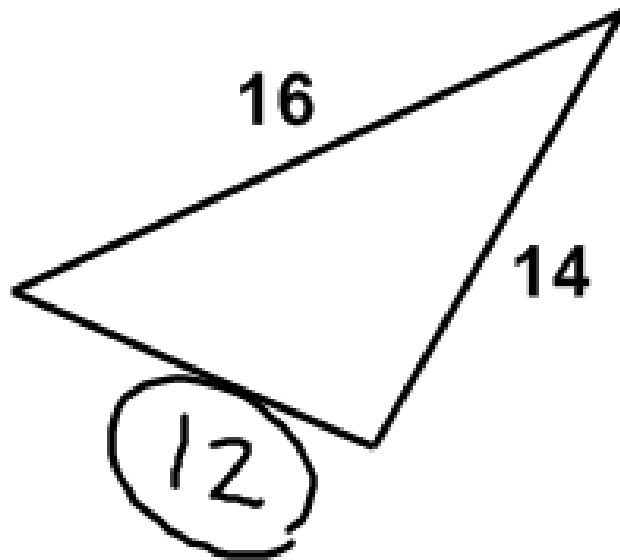
Ex: $(3n^2 + 13n^3 + 5n) - (7n + 4n^3)$

$$9n^3 + 3n^2 - 2n$$

Ex: $(3x^2 + 4x + 2) - (x^2 - 5x - 5)$

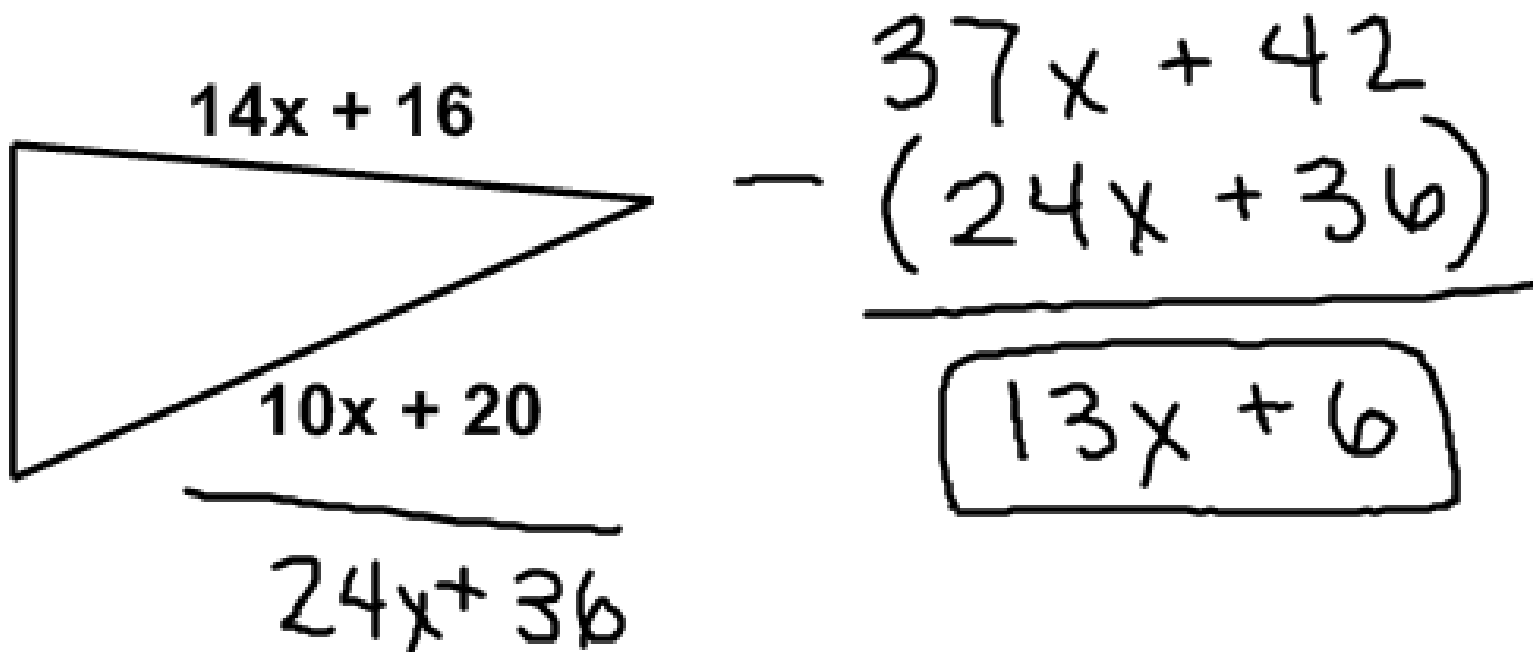
$$2x^2 + 9x + 7$$

Ex: The measure of the perimeter of the triangle shown is 42. Find the length of the third side.



$$\begin{array}{r} 42 \\ - 30 \\ \hline 12 \end{array}$$

Ex: The measure of the perimeter of the triangle shown is $37x + 42$. Find the polynomial that represents the third side of the triangle.





Homework:

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