

Please copy and complete

Simplify each of the following:

1) 
$$2x^3 - 5x + 7 + 6x^3 + x + 1$$

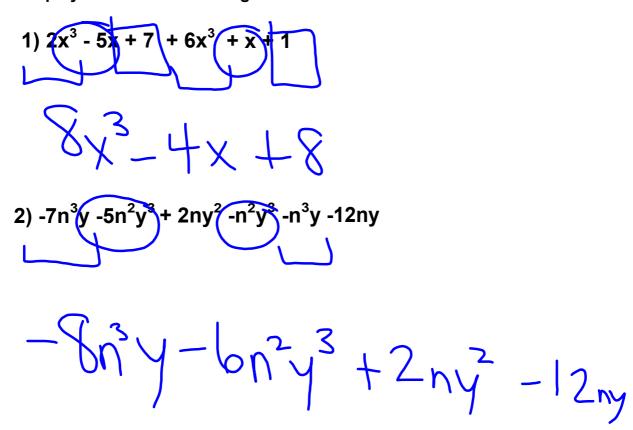
$$8x^{3} - 4x + 8$$
2)  $-7n^{3}y - 5n^{2}y^{3} + 2ny^{2} - n^{2}y^{3} - n^{3}y - 12ny^{2}$ 

$$-8n^{3}y - 6n^{2}y^{3} - 10n^{2}y^{3}$$



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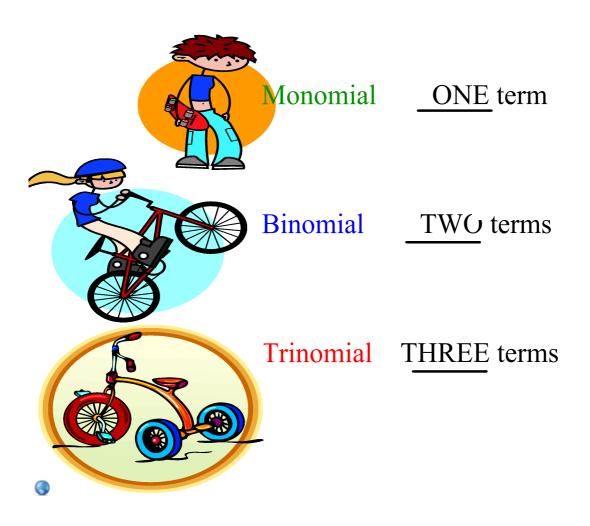
Simplify each of the following:





## Extended





How are terms separated??????



## Terms are separated by "+" and "-" signs.





How many terms?

$$4x-5y+q$$

3

$$5(x-3y)$$

2

$$\frac{3x-4}{5}$$

2

$$\frac{3}{5}x - 4$$

Bonus: How many terms?
$$3x+4y-5x-2y+x$$

Expand and collect like terms.

$$4(x-2)-2(x+3)$$
 $4(x-2)-2x-6$ 
 $2x-14$ 

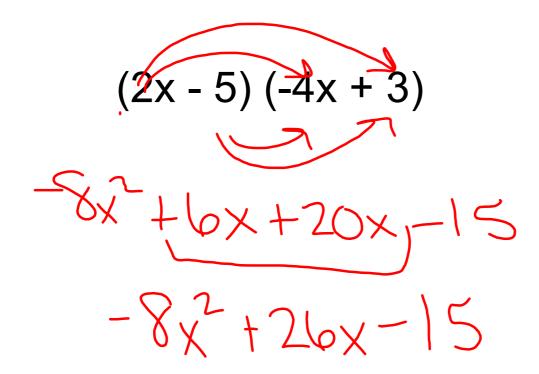
$$2x(x^{3}-5x^{2}-x-5)$$

$$2x^{4}-10x^{3}-2x^{2}-10x$$

$$4(3xy+7x-5)-8(2x+5xy-1)$$

$$12xy+28x-20-6x-15xy+3$$

$$-3xy+22x-17$$



$$(7x - 2z)(3x - 4z)$$

$$\frac{2(x^2 - 28x^2 - 6x^2) + 8z^2}{2(x^2 - 34x^2 + 8z^2)}$$

15. Expand and simplify.



(a) 
$$(3s+5)(2s+2) + (3s+7)(s+6)$$
  
 $(6s^2+6s+10s+10) + (3s^2+18s+75+42)$   
 $(9s^2+41s+52)$ 

b) 
$$(2x+3)(5x+4) + (x-4)(3x-7)$$

$$(13x^2 + 4x + 40)$$

3.7 Multiplying Polynomials