

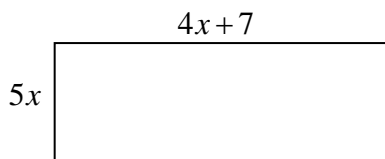
Directions to Polynomials Matching (add, subtract, and multiply polynomials)

- 1) Set up paper using the chart template below.
- 2) Students can work in pairs, but each person has their own paper to show work.
- 3) Give each pair a set of cards (or cut the set of cards if working at home.)
- 4) Match each numbered problem card with its simplified answer on the lettered cards. Then write the letter of each simplified answer next to the numbered card it matches.
- 5) For each solution card, classify the polynomial by degree and number of terms.

# (problem cards)	Letter (solution cards)	Classification
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

#1

Find the area of the rectangle shown below.



#2

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

#3

$$(2x - 1)(-2x^2 - 3x + 4)$$

#4

Find the perimeter of a square with a side measuring $7x - 3$.

#5

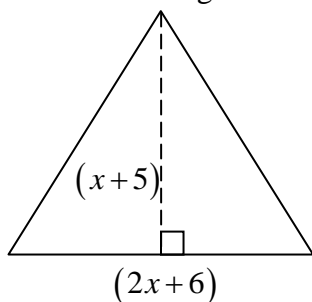
$$(2x^5 - 5x^2) + (3x^5 - x^3 + 2x^2)$$

#6

$$9x^2 + 5 - 10x^2 - 6 + 7x$$

#7

Find the area of the triangle below.



#8

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

#9

Find the perimeter of a rectangle with a length of $9x - 4$ and a width of $x + 7$.

#10

$$(x^3 + 2x + 1) - (2x^2 - 4)$$

#11

Find the area of a square with a side measuring $9x - 2$.

#12

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

#13

Find the perimeter of a triangle with sides measuring $7x - 3$, $3x^2 + x - 8$, and $-2x + 15$.

#14

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

#15

$$7 - 3x^2 + 4 + 2x^2$$

#16

$$(2x + 1)(5x - 3)$$

A

$$-4x^3 - 4x^2 + 11x - 4$$

B

$$x^2 + 8x + 15$$

C

$$5x^5 - x^3 - 3x^2$$

D

$$x^3 - 2x^2 + 2x + 5$$

E

$$28x - 12$$

F

$$3x^2 + 6x + 4$$

G

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

H

$$5x^2 - 3x + 7$$

I

$$x^3 + x^2 - 10x + 8$$

J

$$20x + 6$$

K

$$20x^2 + 35x$$

L

$$10x^2 - x - 3$$

M

$$16x^2 + 16x + 4$$

N

$$81x^2 - 36x + 4$$

O

$$-x^2 + 11$$

P

$$-x^2 + 7x - 1$$