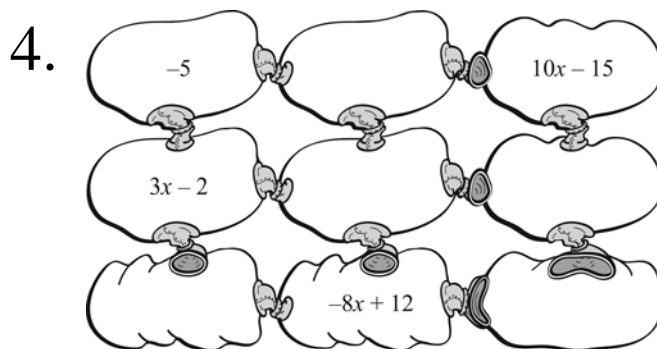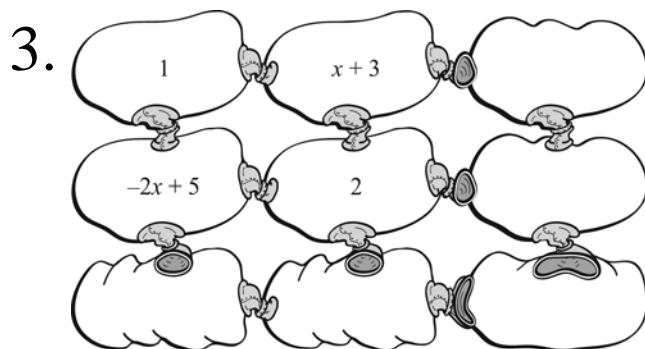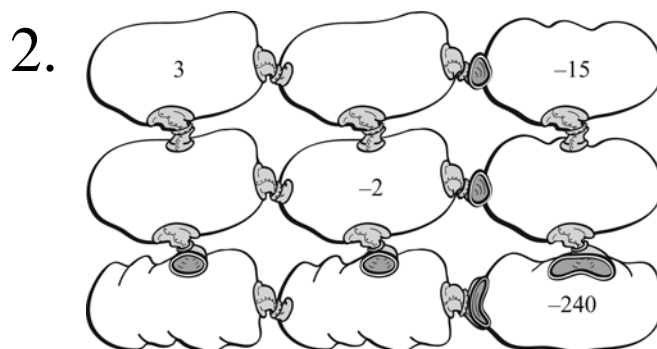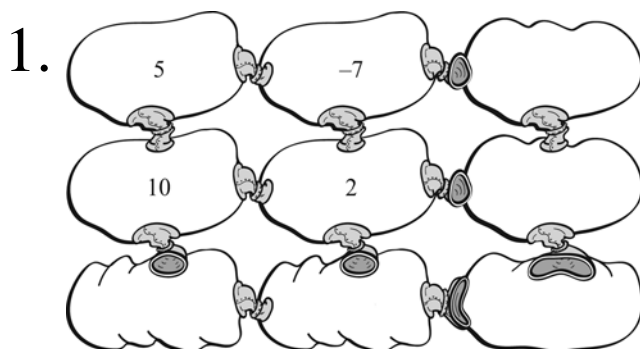# Polynomial Puzzler

Each arrow below indicates multiplication.
For example, $4 \times 5 = 20$ and $5 \times -3 = -15$.
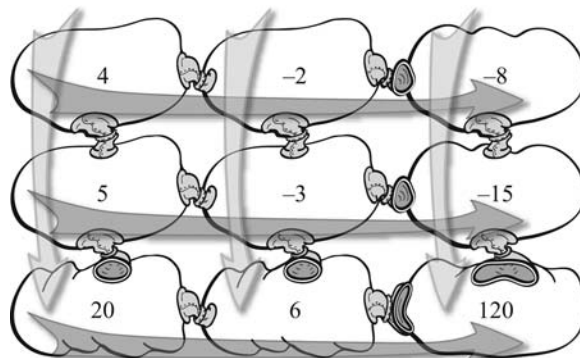
Now try filling in the empty spaces for these:

1.

2.

3.

4.

Polynomial Puzzler

Answers:

1.

5	−7	[−35]
10	2	[20]
[50]	[−14]	[−700]

2.

3	[−5]	−15
[−8]	−2	[16]
[−24]	[10]	−240

3.

1	$x + 3$	[$x + 3$]
$-2x + 5$	2	[$-4x + 10$]
[$-2x + 5$]	[$2x + 6$]	[$-4x^2 - 2x + 30$]

4.

−5	[$-2x + 3$]	$10x - 15$
$3x - 2$	[4]	[$12x - 8$]
[$-15x + 10$]	$-8x + 12$	[$120x^2 - 260x + 120$]