Math worksheet on *'Number Sequences Identify - Polynomial, First Terms (Level 3)'*. Part of a broader unit on *'Patterns and Sums - Practice'*

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1 What sequence, starting with y = 1, are these the first 3 terms of?

-13, -40, -79

a	$-1-9y-6y^2$	**b**	$2-9y-6y^2$
c	$2-9y-8y^2$	**d**	$-1-9y-6y^2$
e	$2-7y-6y^2$	**f**	$2-9y-7y^2$

2 What sequence, starting with x = 1, are these the first 3 terms of?

-1, -23, -57

a	$9-4x-5x^2$	**b**	$9-4x-5x^2$
c	$9-4x-4x^2$	**d**	$9-5x-6x^2$
e	$9-4x-6x^2$	**f**	$8-4x-6x^2$

3 What sequence, starting with x = 1, are these the first 3 terms of?

-4, -26, -60

a	$6-4x-6x^2$	**b**	$6-4x-5x^2$
c	$6-3x-6x^2$	**d**	$6-4x-7x^2$
e	$6-4x-5x^2$	**f**	$6-4x-4x^2$

4 What sequence, starting with b = 1, are these the first 3 terms of?

5, -15, -51

a	$6b+9-8b^2$	**b**	$4b+9-10b^2$
c	$4b+9-6b^2$	**d**	$4b+9-10b^2$
e	$4b+9-8b^2$	**f**	$1b+9-8b^2$

5 What sequence, starting with r = 1, are these the first 3 terms of?

-2, -11, -24

a	$3-4r-2r^2$	**b**	$2-3r-2r^2$
c	$2-3r-2r^2$	**d**	$3-2r-2r^2$
e	$3-3r-2r^2$	**f**	$3-0r-2r^2$

6 What sequence, starting with c = 1, are these the first 3 terms of?

11, 13, 11

a	$9c+5-2c^2$	**b**	$8c+5-4c^2$
c	$8c+2-2c^2$	**d**	$8c+5-2c^2$
e	$6c+5-2c^2$	**f**	$8c+5-3c^2$

7 What sequence, starting with d = 1, are these the first 3 terms of?

-7, -36, -81

a	$6-5d-6d^2$	**b**	$6-5d-8d^2$
c	$8-5d-8d^2$	**d**	$3-5d-8d^2$
e	$7-5d-8d^2$	**f**	$6-5d-9d^2$