Math worksheet on *'Number Sequences Identify - Polynomial, First Terms (Level 2)'*. Part of a broader unit on *'Patterns and Sums - Practice'*

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

4, 20, 42

a	b
$1p^2 + 7p - 6$	$3p^2 + 7p - 4$
c	**d**
$3p^2 + 9p - 6$	$3p^2 + 7p - 6$
e	**f**
$2p^2 + 7p - 6$	$5p^2 + 7p - 6$

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

3, 7, 15

a	b
$2b^2 - 3b + 3$	$2b^2 - 2b + 4$
c	**d**
$0b^2 - 2b + 3$	$2b^2 - 2b + 3$
e	**f**
$2b^2 - 2b + 1$	$2b^2 - 2b + 0$

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

3, 18, 41

a	b
$4r^2 + 2r - 4$	$4r^2 + 0r - 4$
c	**d**
$4r^2 + 4r - 4$	$5r^2 + 3r - 4$
e	**f**
$4r^2 + 3r - 3$	$4r^2 + 3r - 4$

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

7, 22, 49

a	b
$6n^2 - 3n + 4$	$6n^2 - 1n + 4$
c	**d**
$8n^2 - 3n + 4$	$6n^2 - 4n + 4$
e	**f**
$6n^2 - 5n + 4$	$6n^2 - 0n + 4$

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

9, 23, 45

a	b
$4c^2 + 2c + 3$	$4c^2 + 0c + 3$
c	**d**
$4c^2 + 4c + 3$	$4c^2 + 2c + 5$
e	**f**
$4c^2 + 2c + 2$	$4c^2 + 2c + 4$

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

6, 18, 34

a	b
$2r^2 + 6r - 2$	$1r^2 + 6r - 2$
c	**d**
$2r^2 + 6r - 4$	$0r^2 + 6r - 2$
e	**f**
$2r^2 + 7r - 2$	$4r^2 + 6r - 2$

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

13, 33, 65

a	b
$6p^2 + 2p + 6$	$6p^2 + 2p + 7$
c	**d**
$4p^2 + 2p + 5$	$6p^2 + 2p + 3$
e	**f**
$6p^2 + 2p + 5$	$7p^2 + 2p + 5$