mobius

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

Learn online: app.mobius.academy/math/units/patterns_and_sums_practice/

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

-9, -26, -49

a	$3 - 8z - 3z^2$	b	$2 - 5z - 3z^2$
c	$2 - 8z - 5z^2$	d	$2 - 8z - 2z^2$
e	$1 - 8z - 3z^2$	f	$2 - 8z - 3z^2$

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

6, -1, -18

a	$7r + 3 - 5r^2$	b	$8r + 3 - 4r^2$
c	$8r + 0 - 5r^2$	d	$8r + 3 - 5r^2$
e	$8r + 3 - 7r^2$	f	$5r + 3 - 5r^2$

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

-1, -16, -39

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

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

4, -1, -12

a	$4y + 3 - 1y^2$	b	$4y + 3 - 0y^2$
c	$4y + 2 - 3y^2$	d	$4y + 3 - 2y^2$
e	$4y + 3 - 3y^2$	f	$4y + 3 - 5y^2$

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

-6, -36, -82

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

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

-8, -28, -56

a	$4 - 8r - 5r^2$	b	$1 - 8r - 4r^2$
c	$6 - 8r - 4r^2$	d	$4 - 8r - 4r^2$
e	$4 - 8r - 6r^2$	f	$4 - 8r - 3r^2$

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

1, -13, -33

a	$7 - 5y - 3y^2$	b	$9 - 5y - 0y^2$
c	$10 - 5y - 3y^2$	d	$9 - 5y - 3y^2$
e	$9 - 7y - 3y^2$	f	$9 - 2y - 3y^2$

Math learning portal. Enrichment classes. Tutoring. Math games to engage kids. (mobiusmathclub.com)