Name _____ Date _____

# Writing Expressions for Geometric Sequences - Matching Worksheet

Match the expressions that describe the sequences.

_____ 1. -3, -15, -60, ….. Write your answer using decimals and integers.

$a_n =$ ☐ ( ☐ )$^{n-1}$

_____ 2. -6, -18, -54, ….. Write your answer using decimals and integers.

$a_n =$ ☐ ( ☐ )$^{n-1}$

_____ 3. -4, -8, -16, ….. Write your answer using decimals and integers.

$a_n =$ ☐ ( ☐ )$^{n-1}$

_____ 4. -7, -35, -245, ….. Write your answer using decimals and integers.

$a_n =$ ☐ ( ☐ )$^{n-1}$

_____ 5. -2, -18, -162,….. Write your answer using decimals and integers.

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$a_n =$ ☐ ( ☐ )$^{n-1}$

_____ 6. -5, -40, -320,….. Write your answer using decimals and integers.

$a_n =$ ☐ ( ☐ )$^{n-1}$

a. $a_n = -2(9)^{n-1}$

b. $a_n = -5(8)^{n-1}$

c. $a_n = -7(5)^{n-1}$

d. $a_n = -3(5)^{n-1}$

e. $a_n = -6(3)^{n-1}$

f. $a_n = -4(2)^{n-1}$