


B

Determine the $8^{\text {th }}$ term for the following sequence.
$2,-8,32, \ldots$



The number of gallons of water in a 1500 gallon pool decreases by 25 gallons per hour. How much water is left after 24 hours?

Hint: 1500 gallons is NOT the first term. It is the initial amount (zero term). How
$\bullet$ could you find the first term?


# Determine the $8^{\text {th }}$ term for the following sequence. 

5.8, 3.6, 1.4, ...





The number of infected zombies triples every hour. How many zombies are there after 6 hours if one zombie was initially infected?

Hint: 1 zombie NOT the first term. It is the initial amount (zero term). How could you $\bullet$ find the first term?
0.46875

A radioactive substance is reduced by half every hour. If there is $\mathbf{3 0}$ grams of the substance, how much is left after 6 hours?

Hint: $\mathbf{3 0}$ grams NOT the first term. It is the initial amount (zero term). How could you -. find the first term?



# Brian gets a starting 

 wage of \$15 and an annual raise of $\$ 1.50$ per hour. What will Brian's hourly wage be during his tenth year?

## Write the formula for the following sequence.

 $320,80,20, \ldots$$$
a_{n}=4+3(n-1)
$$



