Answer of question 38688 – Math – Algebra

Suppose m(n)=1/6n^2.

(a) Find a formula for y=m(n+8)−7 in terms of the variable n.

y=m(n+8)−7= _____

I have tried numerous things. I did not understand how to complete this

Solution

We have the composed function. To find $m(n+8)$ we should substitute n+8 instead n into the formula $\mathrm{m(n)} = \frac{1}{6\mathrm{n}^2}$:

$$m(n+8) = \frac{1}{6(n+8)^2}$$

And now we get

$y = \ m(n+8) - 7 = \frac{1}{6(n+8)^2} - 7.$

Answer: $y = \ m(n+8) - 7 = \frac{1}{6(n+8)^2} - 7.$