



Lesson 1.4 – Integrals of Constant Functions

- Find the family of antiderivatives of each constant function.
 - $y = m$
 - $y = -9$
 - $y = 0.23$
- Use the Fundamental Theorem of Calculus to evaluate each definite integral.
 - $\int_a^b m \, dx$
 - $\int_2^5 -6 \, dx$
 - $\int_{-\frac{1}{2}}^1 4.2 \, dx$
- Stan saves money by stashing \$50 per week under his mattress.
 - Write a definite integral that represents Stan's total accumulation of savings between the second and tenth weeks.
 - Use the Fundamental Theorem of Calculus to evaluate the integral from part (a), and interpret your answer in context.