Second example

In this activity we give a second example.

Instructor Notes: Here we see a multi-part question.

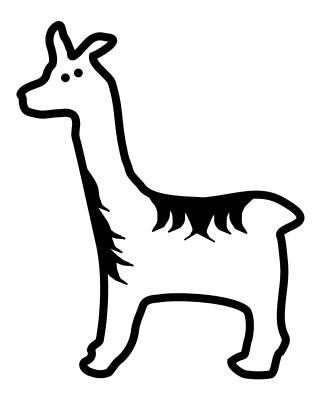
Instructor Introduction: This should tell me something

Here we have a multi-part question with free-response.

Question 1 Suppose you are standing on a bridge that is 60 meters above sealevel. You toss a ball up into the air with an initial velocity of 30 meters per second. If t is the time (in seconds) after we toss the ball, then the height at time t is approximately $f(t) = -5t^2 + 30t + 60$. What does f(2) mean in our context? Now suppose t is such that f(t) = 100. What does this mean in our context? Finally, if h is a small positive value what is the meaning of f(t+h)? How does this compare to the meaning of f(t) + h?

Here is a picture of a llama:

Learning outcomes: Understand a second example of the Ximera style. See how to include graphics.



If you like, check out this videoYouTube link: https://www.youtube.com/watch?v=OaQpLSu2fMs.

Exploration 2 Write a Python script that will compute factorial for you.

```
def honest_factorial(x):
    result = 1
    for i in range(1,x+1):
        result *= i
    return result

def verifier():
    for i in range(10,20):
    if factorial(i) != honest_factorial(i):
        raise "Your function failed for input " + str(i)
    return True
```