Loop De Loop Notes

| A 59 kg pilot in a plane does a vertical loop de loop with radius 366 meters at a constant speed of 94 m/s. $g = 10 \text{ m/s/s}$ | |
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| | What is the centripetal force magnitude in Newtons on the pilot while looping? |
| b. | Draw a force diagram for the pilot at the top of the loop de loop. |
| C. | What is the force normal magnitude in Newtons from the seat on the pilot at the top of the loop de loop? |
| d. | How many units of g-force does the pilot experience at the top of the loop de loop? |
| e. | Draw a force diagram for the pilot at the bottom of the loop de loop. |
| f. | What is the force normal magnitude in Newtons from the seat on the pilot at the bottom of the loop de loop? |
| g. | How many units of g-force does the pilot experience at the bottom of the loop de loop? |