

The opening of a cannon is 18 feet above the ground. The daredevil, who is shot out of the cannon, reaches a maximum height of 28 feet after about 0.75 seconds. Use this information to answer the following questions.

Find the initial upward velocity of the daredevil.

Write an equation that models the path of the daredevil's flight.

Multiply. Write each answer in standard form.

$$(3x + 4)(x + 3)$$

$$(x - 2)(x^2 + 3x - 4)$$

$$(2x - 1)(x + 4)(x - 5)$$