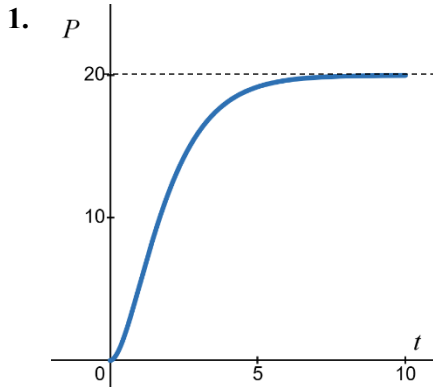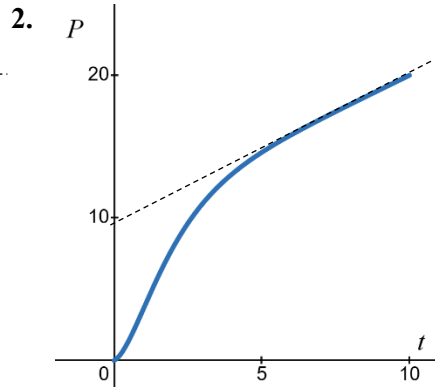# Match the Graphs

Rhino Bonus due Thursday, January 23 for +2 Participation Points handed in at the start of class.

Match the graph, $N(t)$ of new COVID cases (see next page) with the cumulative graph, $P(t)$, of people infected below.
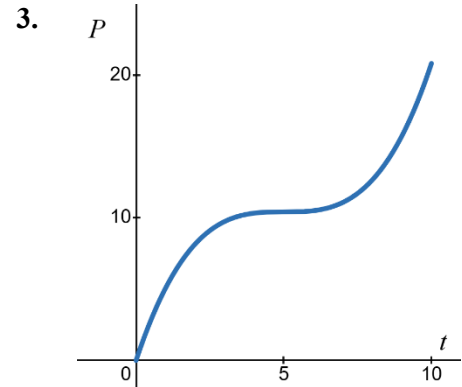Write the letter choice (**A** through **F**) in the blank.
Explain your reasoning clearly to distinguish your N uniquely from others, i.e., end behavior of both N and P,
the location and behavior of the max/min of N and slope at inflection points of P, zeros of N and stationary point of P, etc.
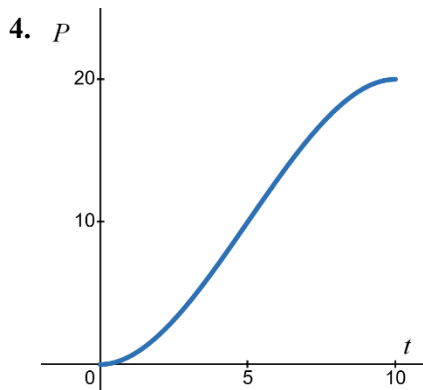Feel free to cut out the six graphs of N and lay each next to its graph of P if doing so is helpful.

1.
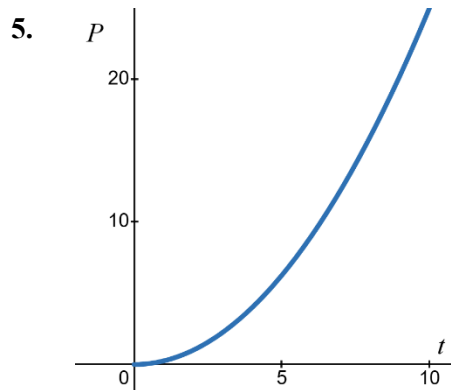
Graph N is Choice _____.
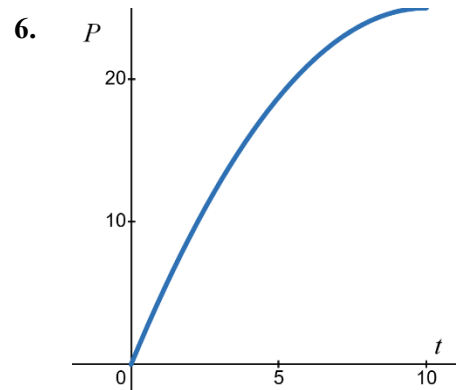Reason:

2.

Graph N is Choice _____.
Reason:

3.

Graph N is Choice _____.
Reason:

4.

Graph N is Choice _____.
Reason:

5.

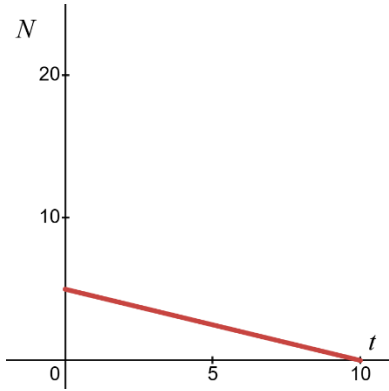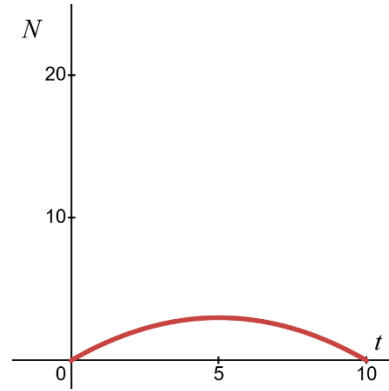Graph N is Choice _____.
Reason:

6.

Graph N is Choice _____.
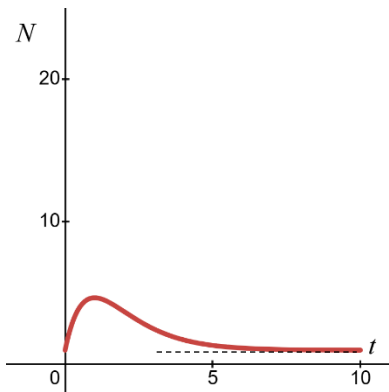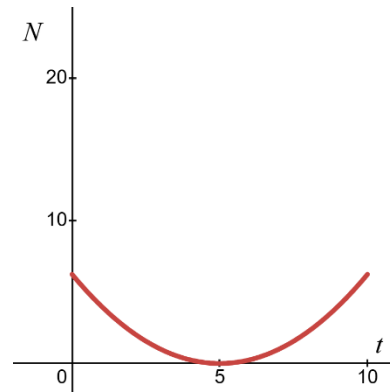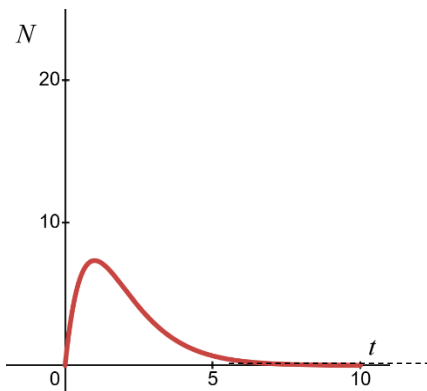Reason:

A.

B.

C.

The line $y = 1$ is a horizontal asymptote.

D.

E

The line $y = 0$ is a horizontal asymptote.

F.