<u>Help</u>



Final project: Applications to

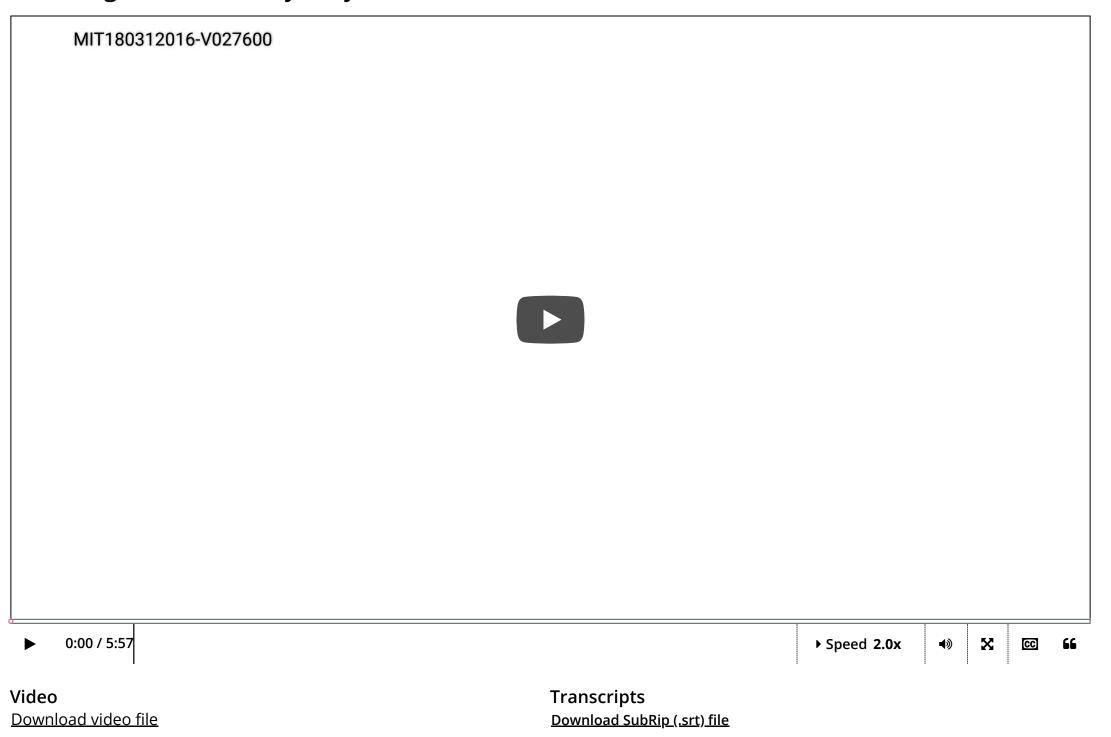
Course > nonlinear differential equations

Project 1: Review of nonlinear

inear 5. Finding critical points of the hare

> <u>populations models</u> > and lynx system

## 5. Finding critical points of the hare and lynx system Modeling the hare and lynx system



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## Find the critical points

2 points possible (graded, results hidden) One critical point of the Hare–Lynx system

$$\dot{H}~=~aH-HL$$

$$\dot{L} = L - HL$$

is  $oldsymbol{H}=\mathbf{0}$ ,  $oldsymbol{L}=\mathbf{0}$ . Find the other critical point.

$$H = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$oldsymbol{L} = oldsymbol{oldsymbol{a}}$$

FORMULA INPUT HELP

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You have used 1 of 5 attempts

## 5. Finding critical points of the hare and lynx system

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