

8.1 supplemental HW

1.) Which of the following could be the general solution to the differential equation whose direction field is given below:

A)  $y = t + C$

B)  $y = 2t + C$

C)  $y = \frac{1}{2}t + C$

D)  $y = -\frac{1}{2}t + C$

E)  $y = -t + C$

F)  $y = -2t + C$

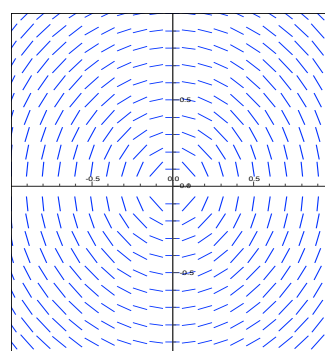
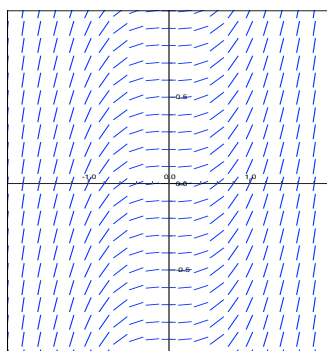
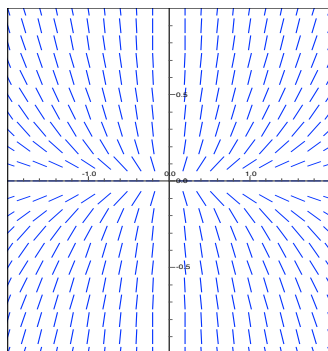
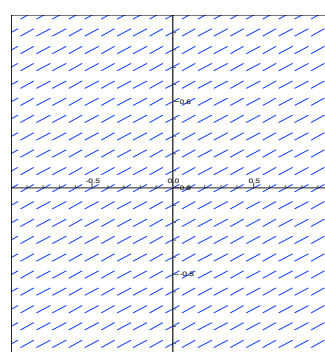
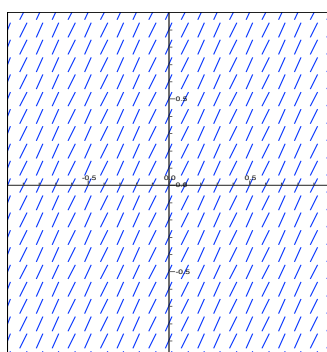
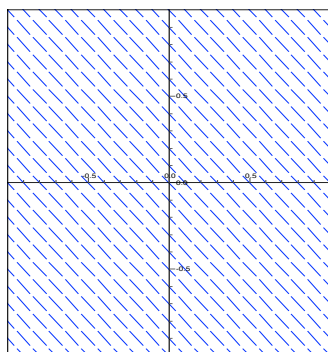
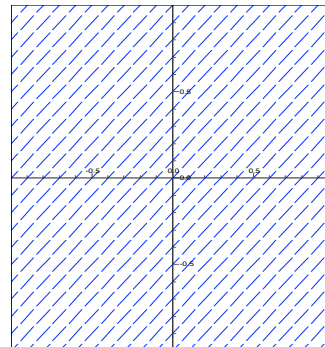
G)  $y = \ln|t| + C$

H)  $y = C$

I)  $y = \frac{Ct^3}{3}$

J)  $y = \frac{t^3}{3} + C$

K)  $x^2 + y^2 = C$



2.) Circle the differential equation whose direction field is given below:

A)  $y' = t^2$

B)  $y' = \frac{1}{2}$

C)  $y' = 1$

D)  $y' = -1$

E)  $y' = y + 1$

F)  $y' = y - 2$

G)  $y' = (y + 1)(y - 2)$

H)  $y' = (y + 1)^2(y - 2)^2$

I)  $y' = (y + 1)(y - 2)^2$

J)  $y' = (y + 1)^2(y - 2)$

K)  $y = -\frac{t}{y}$

