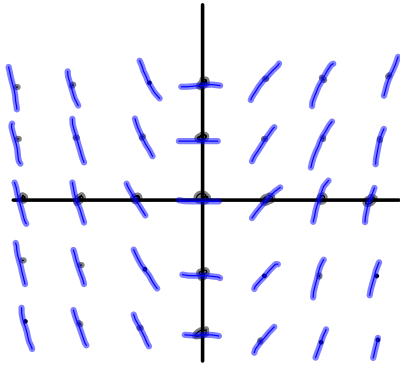


6.1.2

$$\frac{dy}{dx} = 2x$$

The slope of the tangent line is  $2x$  at any  $x$  value.

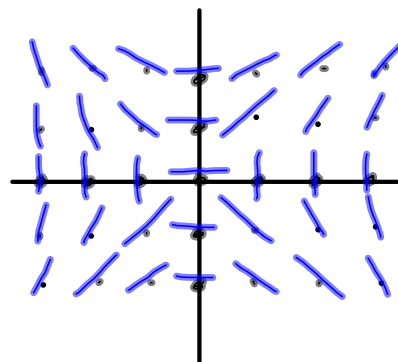
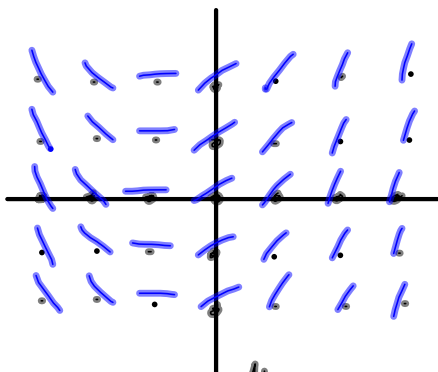


x	y	$\frac{dy}{dx} = 2x$
-3	-	-6
-2	-	-4
-1	-	-2
0	-	0
1	-	2
2	-	4
3	-	6

Feb 5-10:42 AM

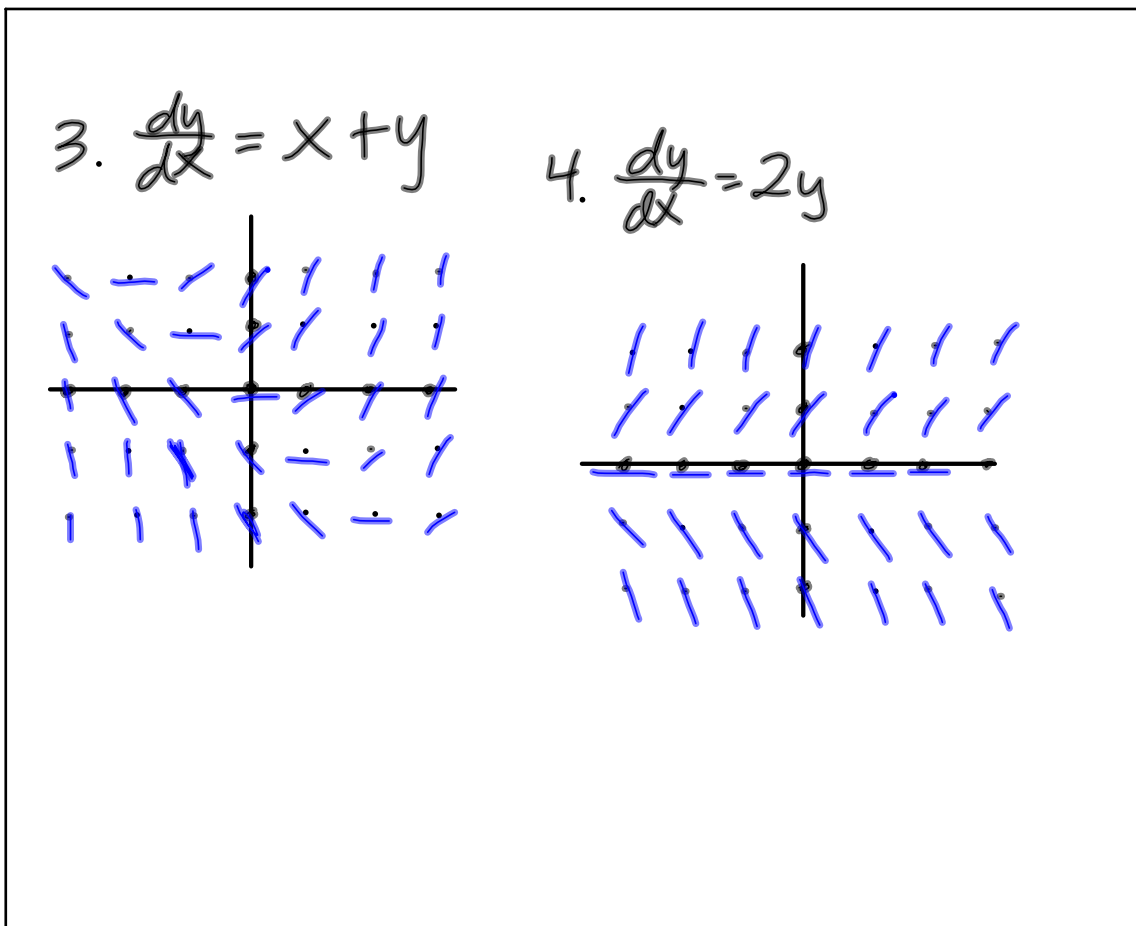
1.  $\frac{dy}{dx} = x+1$

2.  $\frac{dy}{dx} = \frac{x}{y}$

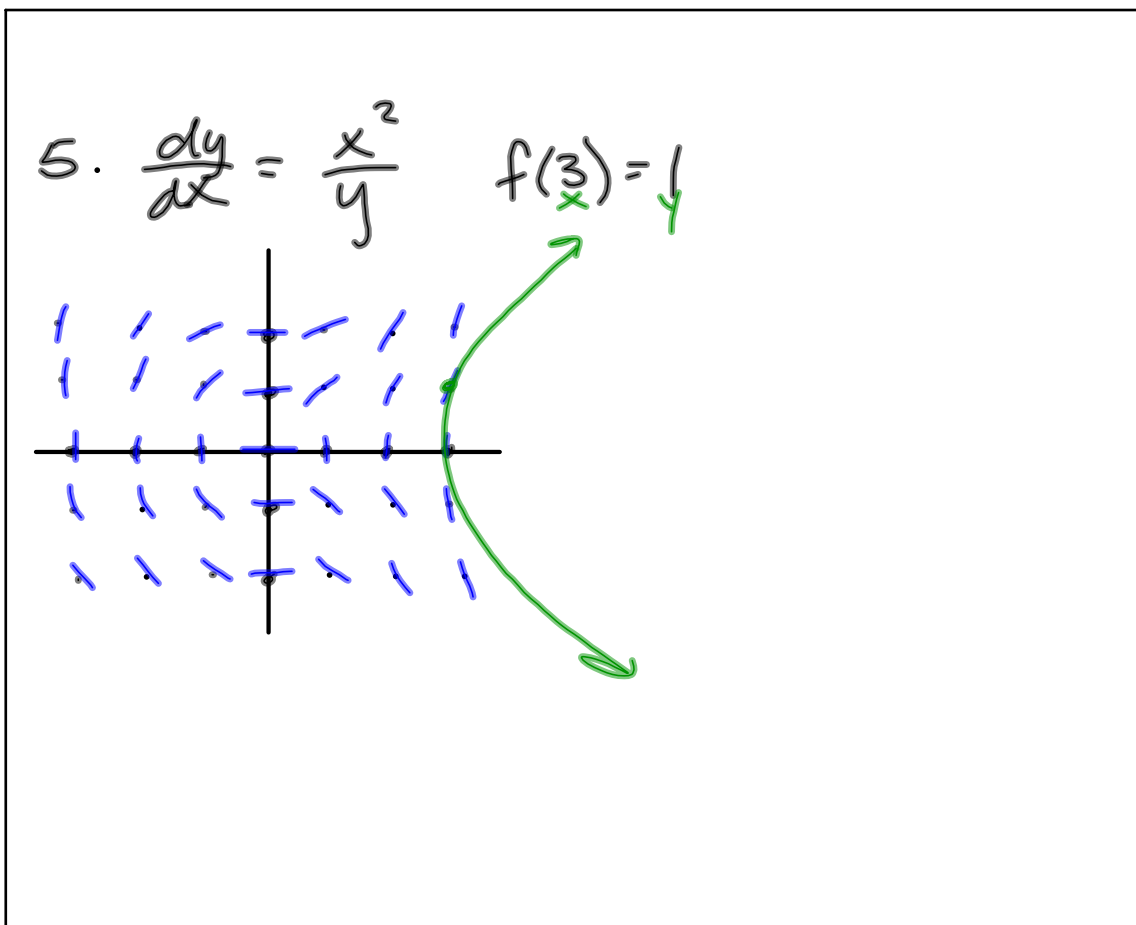


x	y	$\frac{dy}{dx} = x+1$
-3	-	-2
-2	-	-1
-1	-	0
0	-	1
1	-	2
2	-	3
3	-	4

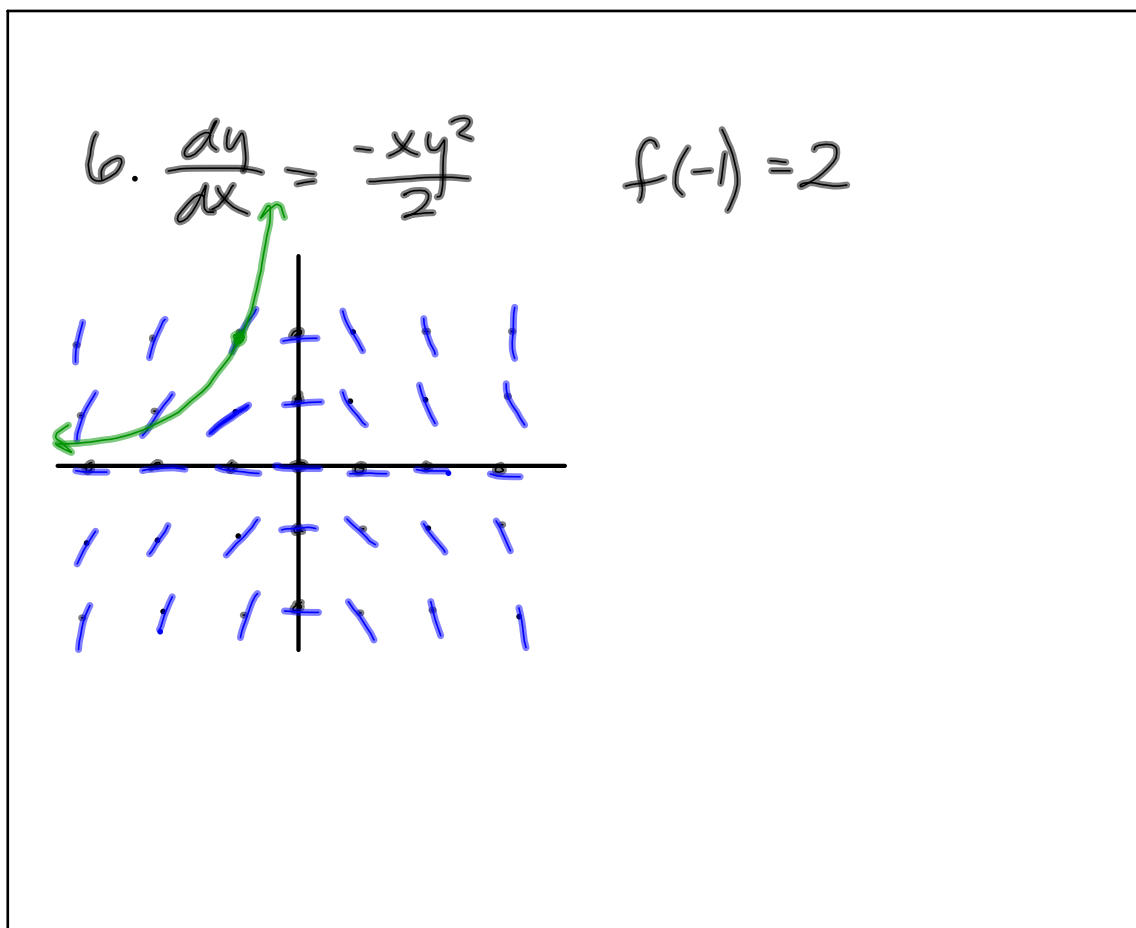
Feb 5-11:27 AM



Feb 5-11:41 AM



Feb 5-11:49 AM



Feb 5-11:56 AM

7. a. orig:  $y = x^3$   
 $\frac{dy}{dx} = x^2$

b. orig:  $y = x^2$   
 $\frac{dy}{dx} = x$

c. orig:  $y = \cos x$   
 $\frac{dy}{dx} = -\sin x$

d. orig:  $y = -\ln x$   
 $\frac{dy}{dx} = -\frac{1}{x}$

f. orig:  $y = x$   
 $\frac{dy}{dx} = 1$

Feb 5-12:03 PM