

Warm-up 3/9/17

Solve.

$$\ln 4x = 7$$

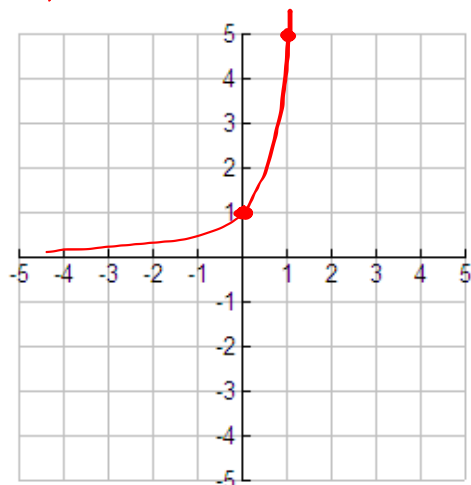
$$\log_e 4x$$

$$e^7 = 4x$$

$$274.23 \frac{e^7}{4} = x$$

Pg. 539 #6

$$y = 5^{-x}$$



Pg. 541 #18, 27

$$\log_7 1 = x = 0$$

$$7^x = 1$$

$$\log 8 - \log y^4$$

$$\log 8 - 4 \log y$$

Pg. 542 #33

$$3^2 = 2x - 5$$

$$14 = 2x$$

$$7 = x$$

$$\ln x + \ln(x+2) = 3$$

$$\ln(x(x+2)) = 3$$

$$\frac{-2 \pm \sqrt{2^2 - 4(1)(-e^3)}}{2(1)}$$

$$e^3 = x^2 + 2x$$

$$0 = x^2 + 2x - e^3$$

$$\frac{-2 \pm \sqrt{4 + 4e^3}}{2}$$