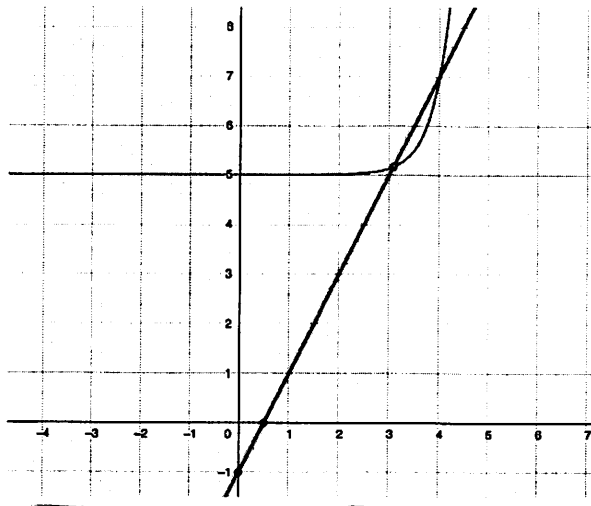


Solving Exp and Log equations Graphically - worksheet

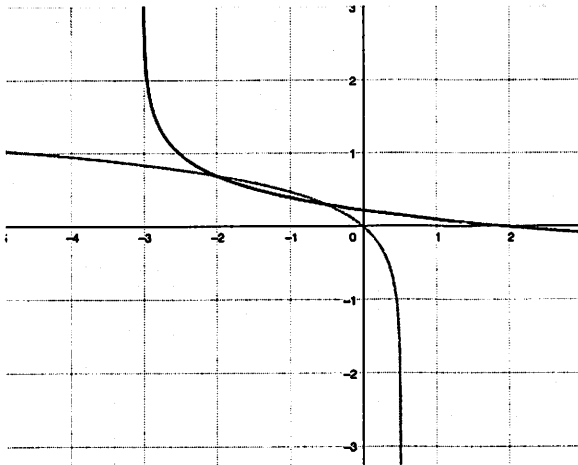
1- Solve the following equations graphically without technology

a) $\frac{1}{8} \times 2^{4(x-3)} + 5 = 2x - 1$



$x = 3$
 $x = 4$

b) $\log(1 - 2x) = 1 - \log(2x + 6)$



$x = -2$
 $x = -\frac{1}{2}$

2- Solve the following equations graphically with your graphing calculator

a) $3 \ln(5x + 1) = 2x^2 - 5$

$x \approx -0.16$

$x \approx 2.53$

b) $3e^{x+2} = 3 - 5x$

$x \approx -1.01$