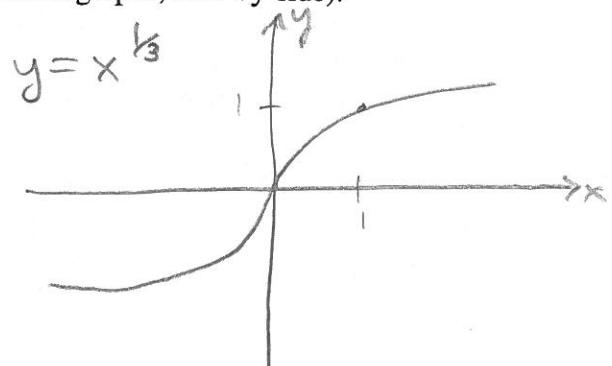
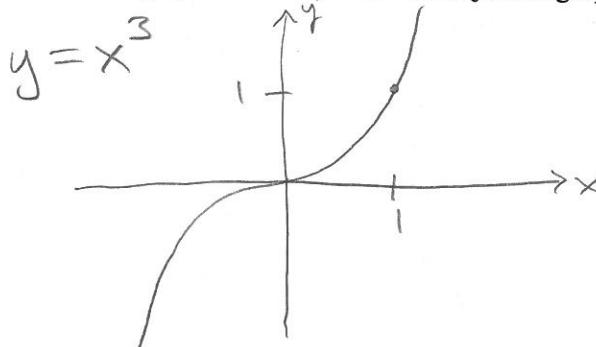


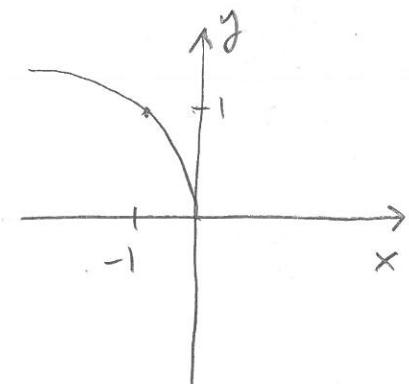
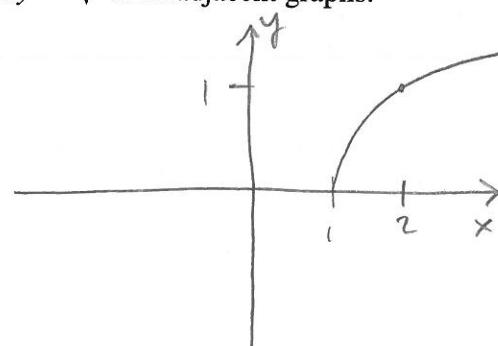
(SOLUTIONS)

Math F251: Sections 1.3–1.5 Worksheet

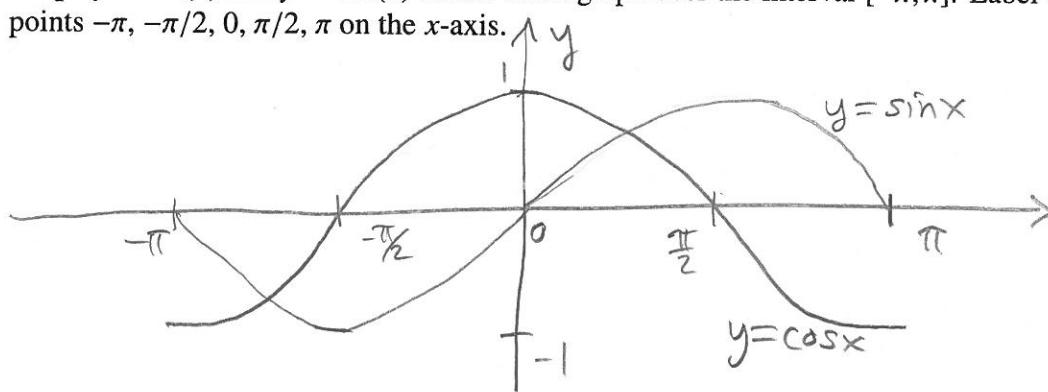
1. Graph $y = x^3$ and $y = x^{\frac{1}{3}}$ on adjacent graphs (i.e. distinct graphs, side-by-side).



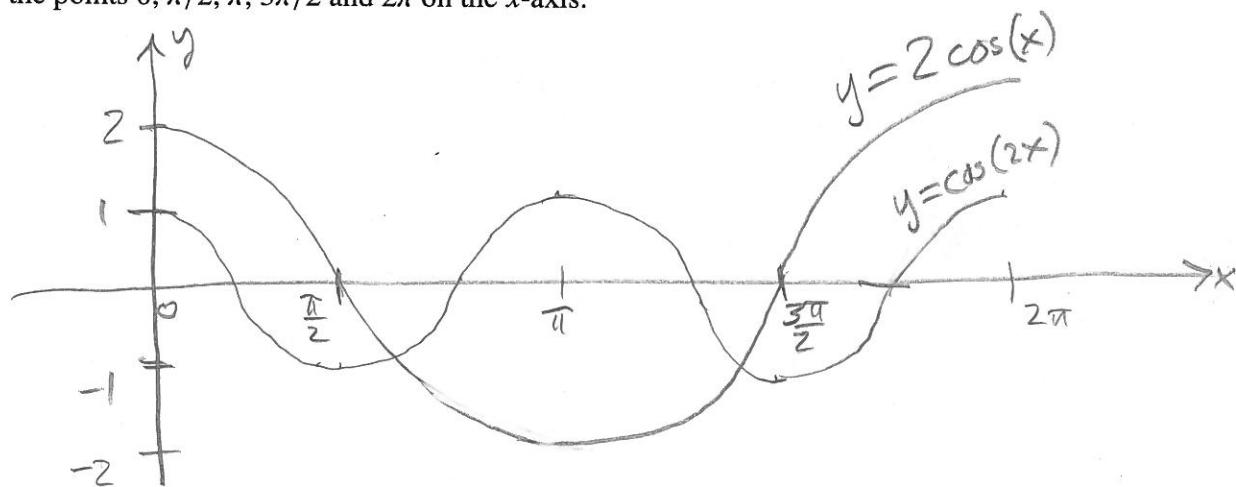
2. Graph $y = \sqrt{x}$, $y = \sqrt{x - 1}$, and $y = \sqrt{-x}$ on adjacent graphs.



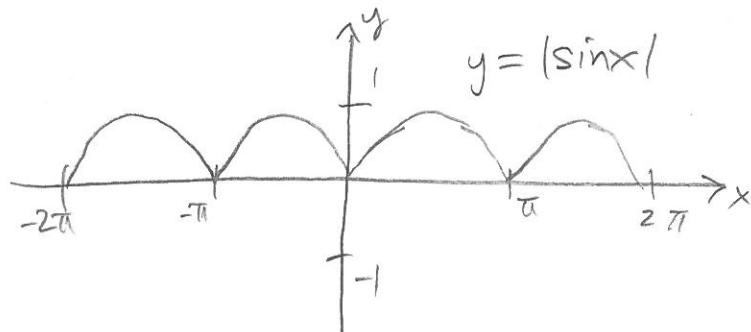
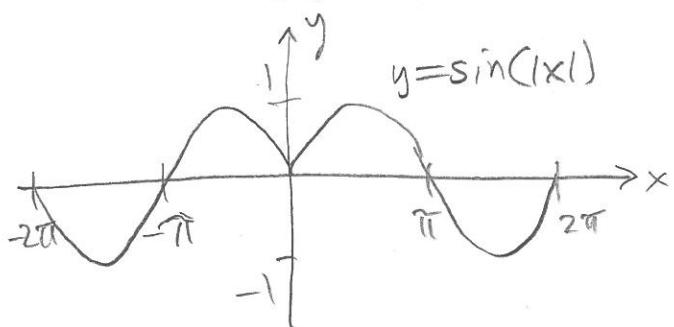
3. Graph $y = \sin(x)$ and $y = \cos(x)$ on the same graph over the interval $[-\pi, \pi]$. Label the points $-\pi, -\pi/2, 0, \pi/2, \pi$ on the x-axis.



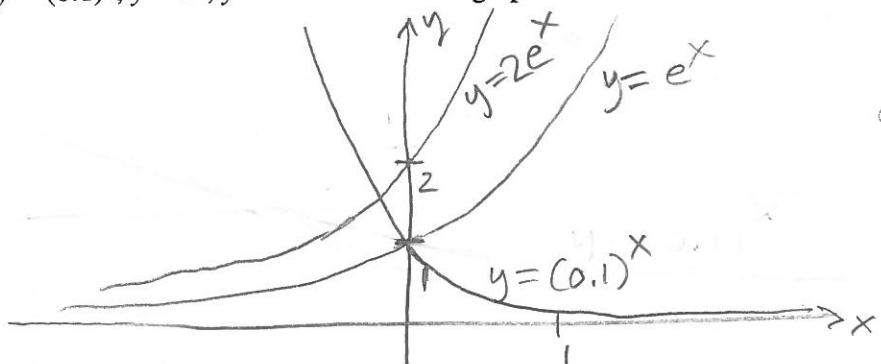
4. Graph $y = \cos(2x)$ and $y = 2 \cos(x)$ over the interval $[0, 2\pi]$ on the same graph. Label the points $0, \pi/2, \pi, 3\pi/2$ and 2π on the x-axis.



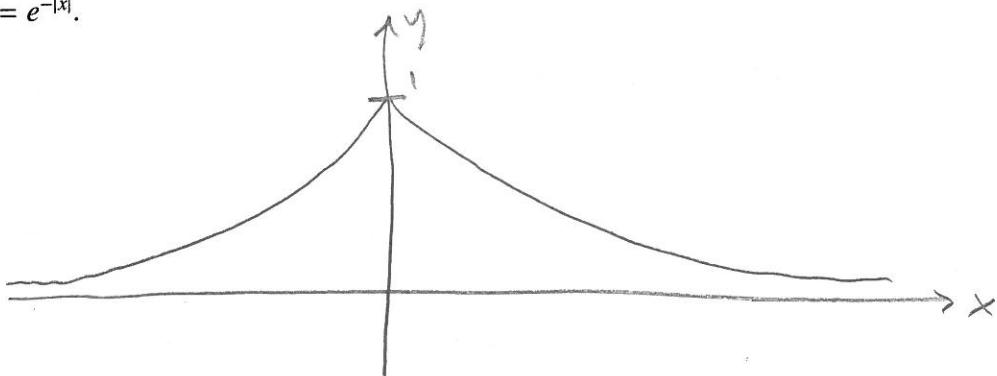
5. Graph $y = \sin(|x|)$ and $y = |\sin(x)|$ over the interval $[-2\pi, 2\pi]$ on adjacent graphs.



6. Graph $y = (0.1)^x$, $y = e^x$, $y = 2e^x$ on the same graph.



7. Graph $y = e^{-|x|}$.



8. Graph $y = \sin(x^2)$ and $y = \sin(1/x)$ on adjacent graphs.

(challenging)

