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Class: 3E1

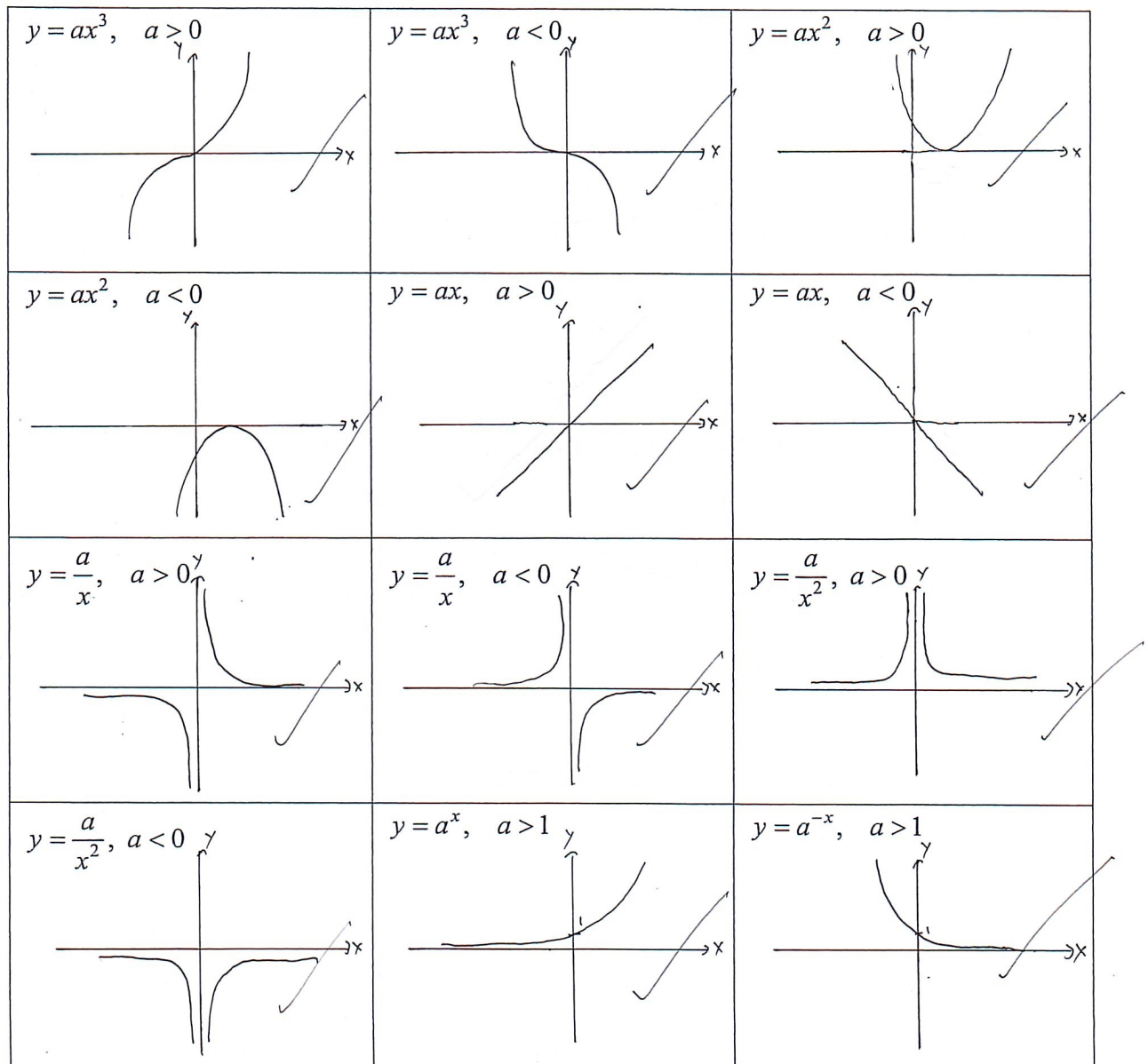
Date: 19th May

MA302.4.2 – Standard Graphs

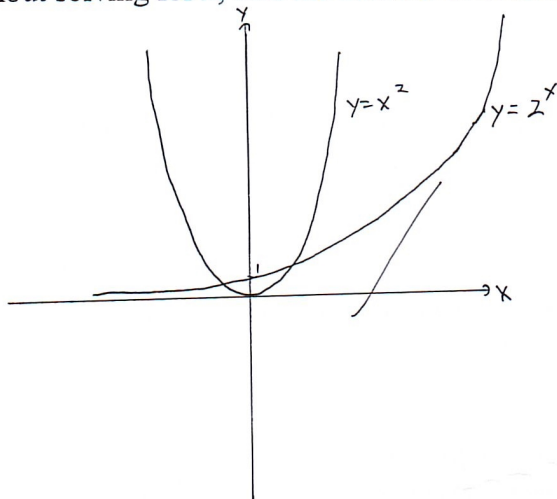
At the end of this unit, you should be able to

- sketch the twelve standard graphs
- use graphs to find number of solutions of equations

E1. Draw clear sketches of the following standard graphs.

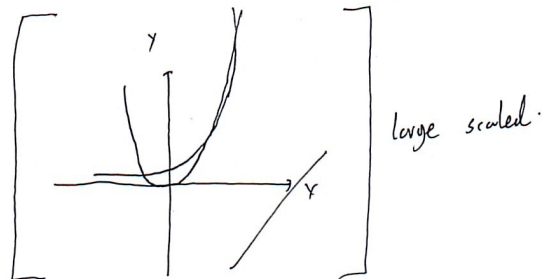


E2. Without solving for x , find the number of solutions to the equation $2^x = x^2$.

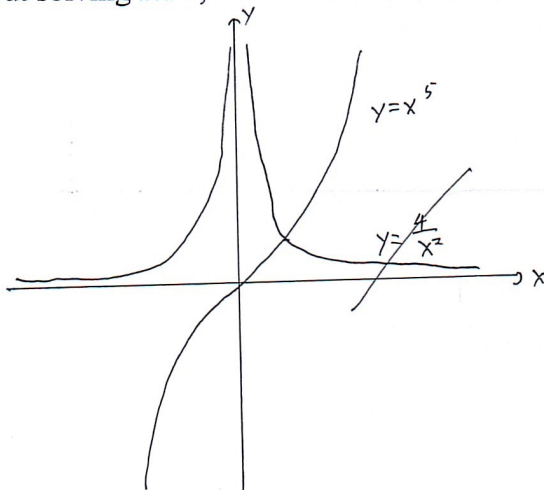


Let $y = 2^x$, $y = x^2$

Ans: 3 solutions.



P1. Without solving for x , find the number of solutions to the equation $x^5 - \frac{4}{x^2} = 0$.

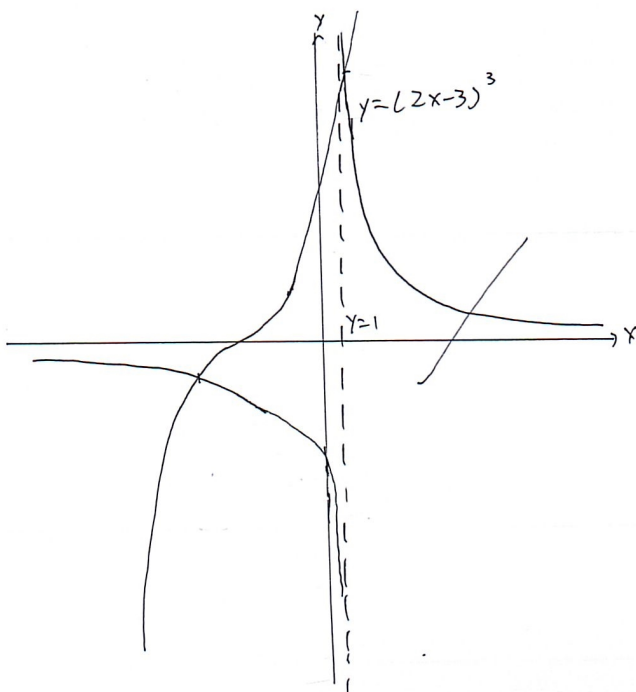


$x^5 = \frac{4}{x^2}$
Let $y = x^5$, $y = \frac{4}{x^2}$

Ans: 1 solution.

P2. Without solving for x , find the number of solutions to the equation $(2x-3)^3 = \frac{2}{x-1}$.

Let $y = (2x-3)^3$, $y = \frac{2}{x-1}$



Ans: 2 solutions