Mathematical Methods 3,4 Summary sheets

Distance between two points

$= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Mid-point $= \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

Parallel lines, $m_1 = m_2$

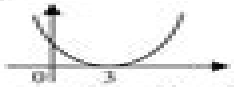
Perpendicular lines,

$m_1 m_2 = -1$ or $m_2 = -\frac{1}{m_1}$

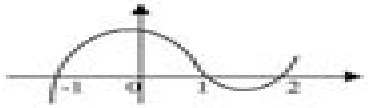
Graphs of polynomial functions in factorised form:

Quadratics e.g. $y = (x+1)(x-3)$

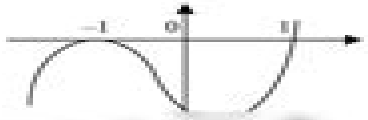
e.g. $y = (x-3)^2$



Cubics e.g. $y = 3(x+1)(x-1)(x-2)$



e.g. $y = (x+1)^2(x-1)$



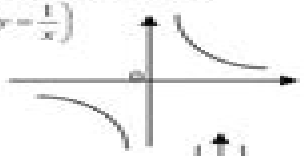
e.g. $y = (x+3)^2(x-1)^2$

e.g. $y = (x+2)^2(x-1)$

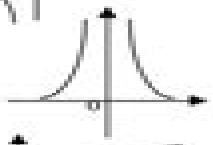
e.g. $y = (x+2)^5$

Examples of power functions:

$y = x^{-1}$ $\left(y = \frac{1}{x}\right)$



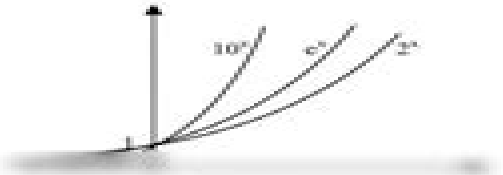
$y = x^{-2}$ $\left(y = \frac{1}{x^2}\right)$



$y = x^{\frac{1}{2}}$ $\left(y = \sqrt{x}\right)$

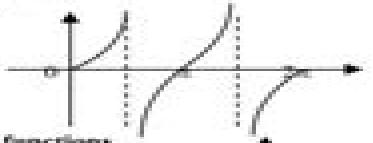
Exponential functions:

$y = a^x$ where $a = 2, e, 10$



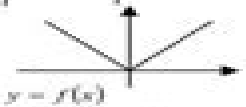
$y = \cos x$

$y = \tan x$



Modulus functions

$y = |x| = \begin{cases} x, x \geq 0 \\ -x, x < 0 \end{cases}$



Transformations of $y = f(x)$

(1) Vertical dilation (dilation away from the x-axis, dilation parallel to the y-axis) by factor k. $y = kf(x)$

(2) Horizontal dilation (dilation away from the y-axis, dilation parallel to the x-axis) by factor $\frac{1}{a}$. $y = f(ax)$

(3) Reflection in the x-axis. $y = -f(x)$

(4) Reflection in the y-axis. $y = f(-x)$

(5) Vertical translation (translation parallel to the y-axis) by c units.

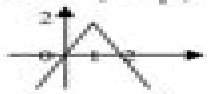
$y = f(x) \pm c$, + up, − down.

(6) Horizontal translation (translation parallel to the x-axis) by b units.

$y = f(x \pm b)$, + left, − right.

*Always carry out translations last in sketching graphs.

Example 1 Sketch $y = -\frac{1}{2}|x-1| + 2$



Example 2 Sketch $y = 2\sqrt{1-x}$.

Rewrite as $y = 2\sqrt{-1(x-1)}$.

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Puja Mehta

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