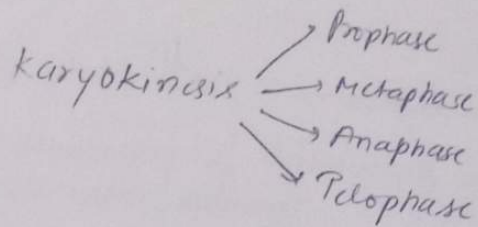


M phase (Division Phase)

- karyokinesis (Nuclear division)
- cytokinesis (Cytoplasmic division)



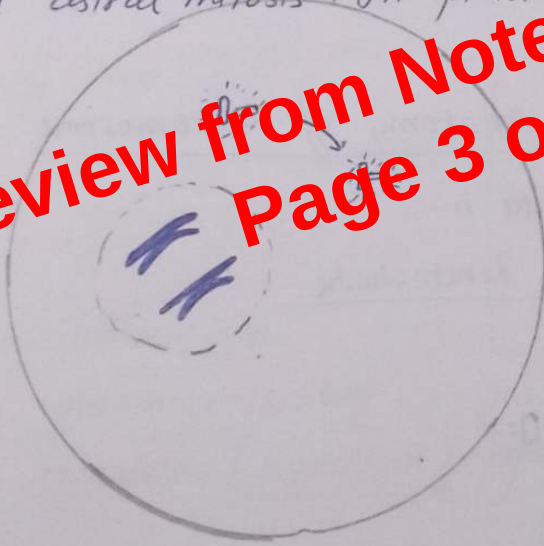
3

M phase is the most dramatic phase of cell cycle.

Prophase

longest phase of karyokinesis

- Disintegration of nuclear membrane
- Nucleolus disappears
- Cell organelle like ER, Golgi complex etc also disappears.
- Condensation/coiling of chromatin fibres to form chromosomes.
- Chromosome become distinct and untangled.
- Centriole start moving towards opp. poles. Astral rays formed in animal cell.
- Since centriole is only present in animal cell it is called astral mitosis. In plant cell, equatorial/amphiatral mitosis seen.



Preview from Notesale.co.uk
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Metaphase

- Complete disintegration of nuclear envelop marks the beginning of metaphase
- Centriole reach opp. poles
 - The sister chromatid align themselves onto an equatorial plate
 - Spindle apparatus is formed.
 - ↳ Spindle fibres join the kinetochore of sister chromatids.
 - Chromosome in metaphase is highly coiled short and distinct
 - Best phase to study the morphology of chromosome.