***The City School***

**Boys Campus North Nazimabad**

**Grade 10 Topics-Video Links**

**Set Theory**[**https://youtu.be/r6xK7YkVjyg**](https://youtu.be/r6xK7YkVjyg)[**https://youtu.be/2TMu2cr9oDk**](https://youtu.be/2TMu2cr9oDk)[**https://youtu.be/eQpbHw-dWRU**](https://youtu.be/eQpbHw-dWRU)

**Heghartymaths (Set Theory) Playlist**

1. [**https://www.youtube.com/watch?v=aafkCjCgPHo&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=1**](https://www.youtube.com/watch?v=aafkCjCgPHo&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=1)
2. [**https://www.youtube.com/watch?v=YDG6BaFjO4M&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=2**](https://www.youtube.com/watch?v=YDG6BaFjO4M&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=2)
3. [**https://www.youtube.com/watch?v=DXBpAZ9IKPc&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=3**](https://www.youtube.com/watch?v=DXBpAZ9IKPc&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=3)
4. [**https://www.youtube.com/watch?v=i4VK6ps4O1s&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=4**](https://www.youtube.com/watch?v=i4VK6ps4O1s&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=4)
5. [**https://www.youtube.com/watch?v=fDpQ-9vqK8U&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=5**](https://www.youtube.com/watch?v=fDpQ-9vqK8U&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=5)
6. [**https://www.youtube.com/watch?v=39l1uyw1530&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=6**](https://www.youtube.com/watch?v=39l1uyw1530&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=6)
7. [**https://www.youtube.com/watch?v=FrbdAyXhBjo&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=7**](https://www.youtube.com/watch?v=FrbdAyXhBjo&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=7)
8. [**https://www.youtube.com/watch?v=gqnSiUFody0&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=8**](https://www.youtube.com/watch?v=gqnSiUFody0&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=8)
9. [**https://www.youtube.com/watch?v=dY1NHA-RIoI&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=9**](https://www.youtube.com/watch?v=dY1NHA-RIoI&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=9)
10. [**https://www.youtube.com/watch?v=c1F13cHMe8Q&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=10**](https://www.youtube.com/watch?v=c1F13cHMe8Q&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=10)
11. [**https://www.youtube.com/watch?v=PudasYtw7wg&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=11**](https://www.youtube.com/watch?v=PudasYtw7wg&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=11)
12. [**https://www.youtube.com/watch?v=97i\_88DaBfQ&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=12**](https://www.youtube.com/watch?v=97i_88DaBfQ&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=12)
13. [**https://www.youtube.com/watch?v=per3pp2IX1s&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=13**](https://www.youtube.com/watch?v=per3pp2IX1s&list=PLxHVbxhSvleS3IgIkDjzxf47e8jk9XuTC&index=13)

**Limits of Accuracy**

**Upper and Lower Bounds**

1. [**https://www.youtube.com/watch?v=le1Hx084sHQ**](https://www.youtube.com/watch?v=le1Hx084sHQ)
2. [**https://www.youtube.com/watch?v=UUjpjY8DuOg**](https://www.youtube.com/watch?v=UUjpjY8DuOg)
3. [**https://www.youtube.com/watch?v=zubZSrmpqfY**](https://www.youtube.com/watch?v=zubZSrmpqfY)
4. [**https://www.youtube.com/watch?v=PRvKuvRt-SA**](https://www.youtube.com/watch?v=PRvKuvRt-SA)
5. [**https://youtu.be/PcvWLT2kaGc**](https://youtu.be/PcvWLT2kaGc)
6. [**https://youtu.be/ebMrP74boHw**](https://youtu.be/ebMrP74boHw)
7. [**https://youtu.be/LdczMmb7J-g**](https://youtu.be/LdczMmb7J-g)
8. [**https://youtu.be/7fQ-nfEzCho**](https://youtu.be/7fQ-nfEzCho)

**Functions**

**Function notation**

[**https://www.youtube.com/watch?v=Kj3Aqov52TY**](https://www.youtube.com/watch?v=Kj3Aqov52TY)

[**https://youtu.be/Mzn6bYRDlPM**](https://youtu.be/Mzn6bYRDlPM)

[**https://www.youtube.com/watch?v=kPxxNFrnT2g**](https://www.youtube.com/watch?v=kPxxNFrnT2g) **Inverse Functions**

[**https://youtu.be/zpF9nbjResYong**](https://youtu.be/zpF9nbjResYong)

[**https://youtu.be/2PwFHlXq7hM**](https://youtu.be/2PwFHlXq7hM)

**Graphs of Functions**

**Explaining Math-Graphs of Linear Functions**

1. [**https://www.youtube.com/watch?v=Gml1EsnRDiw&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=1**](https://www.youtube.com/watch?v=Gml1EsnRDiw&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=1)
2. [**https://www.youtube.com/watch?v=2T9LJehlTg8&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=2**](https://www.youtube.com/watch?v=2T9LJehlTg8&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=2)
3. [**https://www.youtube.com/watch?v=E6w3CGSTjHI&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=3**](https://www.youtube.com/watch?v=E6w3CGSTjHI&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=3)
4. [**https://www.youtube.com/watch?v=itiuobRBcHc&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=4**](https://www.youtube.com/watch?v=itiuobRBcHc&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=4)
5. [**https://www.youtube.com/watch?v=W6UxX0iL\_ys&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=5**](https://www.youtube.com/watch?v=W6UxX0iL_ys&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=5)

**Graphs of Quadratic Functions**

1. [**https://www.youtube.com/watch?v=kB8AeSffLzs&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=6**](https://www.youtube.com/watch?v=kB8AeSffLzs&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=6)
2. [**https://www.youtube.com/watch?v=oHyc7UM8mNE&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=7**](https://www.youtube.com/watch?v=oHyc7UM8mNE&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=7)
3. [**https://www.youtube.com/watch?v=DhDM\_a\_poOg&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=8**](https://www.youtube.com/watch?v=DhDM_a_poOg&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=8)
4. [**https://www.youtube.com/watch?v=VFI-wHeWDWg&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=9**](https://www.youtube.com/watch?v=VFI-wHeWDWg&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=9)

**Graphs of Cubic Functions**

1. [**https://www.youtube.com/watch?v=-6-IojvMebs&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=10**](https://www.youtube.com/watch?v=-6-IojvMebs&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=10)
2. [**https://www.youtube.com/watch?v=t-BcowSRI6s&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=11**](https://www.youtube.com/watch?v=t-BcowSRI6s&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=11)

**Graphs of Reciprocal Functions**

1. [**https://www.youtube.com/watch?v=YZEdYE64LGc&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=12**](https://www.youtube.com/watch?v=YZEdYE64LGc&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=12)
2. [**https://www.youtube.com/watch?v=bKfU7lJ7St4&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=13**](https://www.youtube.com/watch?v=bKfU7lJ7St4&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=13)
3. [**https://www.youtube.com/watch?v=zqnp\_DCjjBs&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=14**](https://www.youtube.com/watch?v=zqnp_DCjjBs&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=14)
4. [**https://www.youtube.com/watch?v=QuArYevZC88&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=15**](https://www.youtube.com/watch?v=QuArYevZC88&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=15)

**Graphs of Exponential Functions**

1. [**https://www.youtube.com/watch?v=iRSNwsbMHGI&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=16**](https://www.youtube.com/watch?v=iRSNwsbMHGI&list=PLZedh-Tvt0cWH7buuXSAA1wHsSrZSujR2&index=16)

**Gradient of a Curve**

[**https://www.youtube.com/watch?v=5Wd67RJ88ug&t=80s**](https://www.youtube.com/watch?v=5Wd67RJ88ug&t=80s)

**Linear Inequalities in Two Variables-Graphs**

[**https://www.youtube.com/watch?v=SMfHgcxRSvo**](https://www.youtube.com/watch?v=SMfHgcxRSvo)

**Heghartymaths-Linear Inequalities Graphs**

1. [**https://www.youtube.com/watch?v=9XqIngLPMNo&t=1109s**](https://www.youtube.com/watch?v=9XqIngLPMNo&t=1109s)
2. [**https://www.youtube.com/watch?v=L8B\_C8mcnV0&t=171s**](https://www.youtube.com/watch?v=L8B_C8mcnV0&t=171s)

**Graphing Inequalities-Corbettmaths**

1. [**https://www.youtube.com/watch?v=39tsiUFCd4c&t=79s**](https://www.youtube.com/watch?v=39tsiUFCd4c&t=79s)
2. [**https://www.youtube.com/watch?v=DCQY8Dyce4k&t=6s**](https://www.youtube.com/watch?v=DCQY8Dyce4k&t=6s)
3. [**https://www.youtube.com/watch?v=aexvnpH-jhI&t=148s**](https://www.youtube.com/watch?v=aexvnpH-jhI&t=148s)

**Further Trigonometry**

**Sine and Cosine of Obtuse Angles**

[**https://www.youtube.com/watch?v=5wc\_OZKgsS0**](https://www.youtube.com/watch?v=5wc_OZKgsS0)

**Sine and Cosine Rule**

[**https://www.youtube.com/watch?v=I8LI7wPSvNI**](https://www.youtube.com/watch?v=I8LI7wPSvNI)

[**https://www.youtube.com/watch?v=zAEcdfePiPg&t=876s**](https://www.youtube.com/watch?v=zAEcdfePiPg&t=876s)

**Area of Triangle**

[**https://www.youtube.com/watch?v=ORkNWz9ADNU&t=103s**](https://www.youtube.com/watch?v=ORkNWz9ADNU&t=103s)

[**https://www.youtube.com/watch?v=vMXiXtg0O4k&t=11s**](https://www.youtube.com/watch?v=vMXiXtg0O4k&t=11s)

**Bearings**

[**https://www.youtube.com/watch?v=-uH8YQu0YDE**](https://www.youtube.com/watch?v=-uH8YQu0YDE)

**Circle Theorem**

**Explaining Math**

1. [**https://www.youtube.com/watch?v=jFwsOeNFAH0**](https://www.youtube.com/watch?v=jFwsOeNFAH0)
2. [**https://www.youtube.com/watch?time\_continue=12&v=45emTGGTLmA**](https://www.youtube.com/watch?time_continue=12&v=45emTGGTLmA)
3. [**https://www.youtube.com/watch?v=CVO\_\_wZiX2M**](https://www.youtube.com/watch?v=CVO__wZiX2M)
4. [**https://www.youtube.com/watch?v=JHblxgvc3e4**](https://www.youtube.com/watch?v=JHblxgvc3e4)
5. [**https://www.youtube.com/watch?v=4-uqHq7k6KA**](https://www.youtube.com/watch?v=4-uqHq7k6KA)
6. [**https://www.youtube.com/watch?v=sWqMK5QY41M**](https://www.youtube.com/watch?v=sWqMK5QY41M)
7. [**https://www.youtube.com/watch?v=IuyE3U23oao**](https://www.youtube.com/watch?v=IuyE3U23oao)

**Heghartymaths**

1. [**https://youtu.be/BDqELk2xCPU**](https://youtu.be/BDqELk2xCPU)
2. [**https://youtu.be/FN0HMEiP3JM**](https://youtu.be/FN0HMEiP3JM)

**Equal chords of a circle are equidistant from the centre**

[**https://www.youtube.com/watch?v=6BTIGP5cmk0**](https://www.youtube.com/watch?v=6BTIGP5cmk0)

# Application of the theorem Perpendicular from the centre bisects the chord

[**https://www.youtube.com/watch?v=Z19vWitXpDE**](https://www.youtube.com/watch?v=Z19vWitXpDE)

**Matrices**

1. [**https://youtu.be/iLJqMCmLlBY**](https://youtu.be/iLJqMCmLlBY)
2. [**https://youtu.be/pwkH2IxGblU**](https://youtu.be/pwkH2IxGblU)
3. [**https://youtu.be/8RLn0fCJ7BI**](https://youtu.be/8RLn0fCJ7BI)
4. [**https://www.youtube.com/watch?v=Syw0C4tMU6c&t=51s**](https://www.youtube.com/watch?v=Syw0C4tMU6c&t=51s)
5. [**https://youtu.be/TwFPzmS9RVA**](https://youtu.be/TwFPzmS9RVA)

**Kinematics**

**Explaining Maths-Travel Graphs**

1. [**https://www.youtube.com/watch?v=VZA7EAPloEw&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=3**](https://www.youtube.com/watch?v=VZA7EAPloEw&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=3)
2. [**https://www.youtube.com/watch?v=fKSCq8xXJmk&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=4**](https://www.youtube.com/watch?v=fKSCq8xXJmk&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=4)
3. [**https://www.youtube.com/watch?v=Dusg7sVJGxw&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=5**](https://www.youtube.com/watch?v=Dusg7sVJGxw&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=5)
4. [**https://www.youtube.com/watch?v=nh9NY6E3h-Y&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=6**](https://www.youtube.com/watch?v=nh9NY6E3h-Y&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=6)
5. [**https://www.youtube.com/watch?v=cQIomdEDqWE&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=7**](https://www.youtube.com/watch?v=cQIomdEDqWE&list=PLZedh-Tvt0cX8vHo9oGzIeiN5xHhIm-aC&index=7)

**Distance-Time Graph**

[**https://www.youtube.com/watch?v=LJctqrA9jhU**](https://www.youtube.com/watch?v=LJctqrA9jhU)

**Speed-Time graph**

[**https://www.youtube.com/watch?v=JRWgEEq6wzA&t=70s**](https://www.youtube.com/watch?v=JRWgEEq6wzA&t=70s)