MATH 10C FORMULA SHEET

**Metric & Imperial Conversion Factors**

|  |  |  |
| --- | --- | --- |
| Relationships between Imperial Units | Approximate Relationships between Imperial Units and Metric Units | Relationships between Metric Units |
| 1 mile = 1760 yards1 mile = 5280 feet | 1 mile = 1.609 km1 km = 0.6214 miles | 1 km = 1000 m |
| 1 yard = 3 feet 1 yard = 36 inches | 1 yard = 0.9144 m1 m = 1.094 yd | 1 m = 100 cm |
| 1 foot = 12 inches | 1 foot = 0.3048 m = 30.48 cm1 m = 3.281 ft | 1 cm = 10 mm |
|  | 1 inch = 2.54 cm1 cm = 0.3937 in |  |

**Area, Surface Area and Volume Formulas**

Area: Rectangle  Triangle  Circle 

|  |  |  |  |
| --- | --- | --- | --- |
| Shape | Shape | Volume | Surface Area |
| prism | Rectangular prism |  | or  |
| pyramid | Right pyramid |  |  |
| cylinder | Cylinder |  |  |
| cone | Cone |  |  |
| sphere | Sphere |  or  |  or  |

**Pythagorean Theorem**

 c2 = a2 + b2

# Trigonometric Ratios

  

# Exponent Laws

|  |  |
| --- | --- |
| Exponent Law | Rule |
| Product of Powers |  |
| Quotient of Powers |  |
| Power of a Power |  |
| Power of a Product |  |
| Power of a Quotient |  |
| Zero Exponent |  |
| Negative Exponent |  |
| Fractional Exponent |  |

**Linear Functions**

  

slope-intercept form 

general form  slope-point form 

standard form 