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1.1.2 General

Equation of the

circle: The General

Equation of the

circle is  $x^2 + y^2 +$



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$$2gx + 2fy + c = 0$$

(2) Add  $g^2$ ,  $f^2$  on both sides

$$2gx + g^2 + 2fy + f^2 = g^2 + f^2 - c$$

$$2g(x + g) + 2f(y + f) = g^2 + f^2 - c$$

$$\begin{aligned} & \left[ \frac{2g}{2} \left( x + \frac{g}{2} \right) + \frac{2f}{2} \left( y + \frac{f}{2} \right) \right] = \frac{g^2 + f^2 - c}{2} \\ & \left[ x + \frac{g}{2} \right] \left[ y + \frac{f}{2} \right] = \frac{g^2 + f^2 - c}{2} \end{aligned}$$

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The Engineering Maths 2 course covers three main outcomes: Solve trigonometric and hyperbolic functions Use differentiation techniques to solve engineering problems Use integration techniques to solve engineering

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problems. The course is assessed via a single, end of year exam with 60% being required to pass.

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### Engineering

Surface Area =

$$2(wd + wh + dh) h$$

r Cylinder Volume

$$= r^2 \text{ Surface Area}$$

$$= 2 r h + 2 r^2 \text{ Cube}$$

3 Surface Area =

$$6s^2 \text{ s s s Right}$$

Circular Cone r h

Trapezoid h Area =

$$\frac{1}{2}(a + b)h \text{ b h h a}$$

Constants g = 9.8

$$\text{m/s}^2 = 32.27 \text{ ft/s}^2$$

$$G = 6.67 \times 10^{-11}$$

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$$\text{m}^3/\text{kg} \cdot \text{s}^2 =$$

3.14159 h Irregular  
Prism Volume = Ah

A = area of base a

Right Triangle  $c^2 =$   
 $a^2 + b^2$  b c

Engineering

Formula Sheet

$$\cos(\theta) = \cos(\alpha)\cos(\beta) + \sin(\alpha)\sin(\beta) \quad (2)$$

$$\cos(\alpha + \beta) = \cos(\alpha)\cos(\beta) - \sin(\alpha)\sin(\beta)$$

$$(3) \sin(\alpha) = \sin(\beta)$$

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$$\begin{aligned} & \cos(\alpha)\cos(\beta) - \sin(\alpha)\sin(\beta) \\ (4) \quad & \sin(\alpha + \beta) = \sin(\alpha)\cos(\beta) + \cos(\alpha)\sin(\beta) \\ & \cos(\alpha - \beta) = \cos(\alpha)\cos(\beta) + \sin(\alpha)\sin(\beta) \\ (5) \quad & \tan(\alpha + \beta) = \frac{\tan(\alpha) + \tan(\beta)}{1 - \tan(\alpha)\tan(\beta)} \\ & \tan(\alpha - \beta) = \frac{\tan(\alpha) - \tan(\beta)}{1 + \tan(\alpha)\tan(\beta)} \\ (6) \quad & \tan(\alpha + \beta) = \frac{\tan(\alpha) + \tan(\beta)}{1 - \tan(\alpha)\tan(\beta)} \\ & \tan(\alpha - \beta) = \frac{\tan(\alpha) - \tan(\beta)}{1 + \tan(\alpha)\tan(\beta)} \end{aligned}$$

Double-angle

$$\begin{aligned} \text{formulae} \quad & \cos(2x) = \cos^2(x) - \sin^2(x) \quad (8) \\ & = 2\cos^2(x) - 1 \quad (9) \\ & = 1 - 2\sin^2(x) \quad (10) \end{aligned}$$

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Formula sheet:

Mathematics -  
v2020

A.P.  $S_n = a + (a + d) + (a + 2d) + \dots + [a + (n - 1)d] = \frac{n}{2} [2a + (n - 1)d]$   
G.P.  $S_n = a + ar + ar^2 + \dots + ar^{n-1} = a \frac{1 - r^n}{1 - r}$  for  $|r| < 1$ ,  
 $S_1 = a \frac{1 - r^n}{1 - r}$  for  $|r| < 1$  (These results also hold for complex series.)

Convergence of

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series: the ratio

$$\text{test } S_n = u_1 + u_2 + u_3 + \dots + u_n$$

converges as  $n \rightarrow \infty$  if

$$\lim_{n \rightarrow \infty} \frac{u_{n+1}}{u_n} < 1$$

1 Convergence of  
series: the  
comparison test

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$16 \div 8$  can be written  $24 \div 23$   
This equals 21 or simply 2 using the

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rules of indices which tell us to subtract the powers 4 and 3 to give the new power, 1. If we had a look-up table containing powers of 2, it would be straightforward to look up  $2^7$  and obtain  $2^7 = 128$  as the result of finding  $16 \times 8$ .



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The equation  $x^2 = at^2/2$  is an example of an algebraic equation. In general we use  $x$  and  $y$  and a general equation may be written as  $y = Cx^n$  where 'C' is a constant and 'n' is a power or index. The rule for

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differentiating is :

$$dy/dx = Cnx (n-1)$$

$$\text{or } dy = Cnx (n-1)$$

dx

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