

Foundations of Math & Pre-Calculus 10

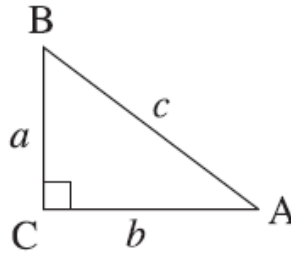
Formula Sheet

Trigonometry: (Ensure your calculator is in Degree Mode)
(Right Triangles)

$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan A = \frac{\text{opposite}}{\text{adjacent}}$$



Pythagorean Theorem:

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

Linear Functions:

The slope of a line: $m = \frac{\text{Rise}}{\text{Run}} = \frac{y_2 - y_1}{x_2 - x_1}$

The equation of a line:

$$y = mx + b$$

$$Ax + By + C = 0$$

$$y - y_1 = m(x - x_1)$$

Arithmetic Sequences:

$$t_n = t_1 + d(n - 1)$$

t_n is the value at the n^{th} position

t_1 is the value of the 1st term

d is the common difference

n is the position number

Other Information:

distance = speed \times time

Use the value of π programmed in your calculator rather than the approximation of 3.14

(For 2015) Based on Annual Gross Income

CPP

Max Earnings = \$53,600
 Basic Exemption = \$3,500
 Contribution Rate = 4.95%
 Max Contribution = \$2479.95

EI

Max Earnings = \$49,500
 Contribution Rate = 1.88%
 Max Contribution = \$930.60

12 months in a year
 52 weeks in a year

semi-monthly = twice a month
 biweekly = every two weeks

| FEDERAL TAX (2015): | | | | |
|-------------------------|------------------------------------|--|---|---------------------------------------|
| Annual Taxable Income: | | | | |
| | Taxable Income \$44 701 or less | Taxable income more than \$44 701 but not more than \$89 401 | Taxable income more than \$89 401 but not more than \$138 586 | Taxable income more than \$138 586 |
| Enter taxable income | | | | |
| | - 0.00 | - 44 701.00 | - 89 401.00 | - 138 586.00 |
| Cannot be negative | = | = | = | = |
| | X 15% | X 22% | X 26% | X 29% |
| | = | = | = | = |
| | + 0.00 | + 6 705.00 | + 16 539.00 | + 29 327.00 |
| Federal tax | = | = | = | = |

| BRITISH COLUMBIA PROVINCIAL TAX (2015): | | | | | | |
|---|------------------------------------|--|--|---|--|---------------------------------------|
| Annual Taxable Income: | | | | | | |
| | Taxable Income \$37 869 or less | Taxable income more than \$37 869 but not more than \$75 740 | Taxable income more than \$75 740 but not more than \$86 958 | Taxable income more than \$86 958 but not more than \$105 592 | Taxable income more than \$105 592 but not more than \$151 050 | Taxable income more than \$151 050 |
| Enter taxable income | | | | | | |
| | - 0.00 | - 37 869.00 | - 75 740.00 | - 86 958 | - 105 592 | - 151 050 |
| Cannot be negative | = | = | = | = | = | = |
| | X 5.06% | X 7.7% | X 10.5% | X 12.29% | X 14.7% | X 16.8% |
| | = | = | = | = | = | = |
| | + 0.00 | + 1 916.00 | + 4 832.00 | + 6 010.00 | + 8 300.00 | + 14 982.00 |
| Provincial tax | = | = | = | = | = | = |