Module 3:
Expressions in JAVA

Convert these statements into Java Expressions

1. $\sqrt{\dfrac{(a+b)}{ab}}$

2. $a = \pi r^2$

3. $5/10 + x^5 + 4/bx^3$

4. $ax^5 + bx^3 + c$

5. $T = $ square root $(A^2 + B^2 + C^2)$

6. $x = e^{|2x - 4x|}$

7. $s = \sqrt{(\sin(a) + \tan(a) - \cos(a)}$

8. $\dfrac{-b + \sqrt{b^2 - 4ac}}{2a}$

9. $|x^3 - y^2 - 2xy|$

10. $\dfrac{a^3 + b^3}{a^3 - b^3}$

11. $A = \dfrac{(a+b)^2 * (a-b)^3}{2ab}$

Solutions for JAVA Expressions

1. Math.sqrt((a+b)/(a*b));

2. A= 3.14 * r 8r;

3. 5/10 + Math.pow(x,5)+ 4/(b*Math.pow(x,3));

4. a*Math.pow(x,5) + b*Math.pow(x,3) + c;

5. T = Math.sqrt(A*A + B*B + C*C);

6. X = Math.exp(Math.abs(2*x-4*x));

7. S = Math.sqrt(Math.sin(a)+ Math.tan(a) – Math.cos(a));

8. (- b + Math.sqrt(Math.pow(b,2)-4*a*c))/2*a;

9. Math.abs(Math.pow(x,3)- Math.pow(y,2)-2*x*y);

10. (Math.pow(a,3)+Math.pow(b,3))/(Math.pow(a,3)+Math.pow(b,3));

11. A = (Math.pow(a+b,2) * Math.pow(a-b,3)) / 2*a*b;