#### Pre-Calculus 12 Practice Exam 2 MULTIPLE-CHOICE (Calculator permitted )

1. Solve  $\cos 3x = \sin x$ ,  $0 \le x \le \frac{\pi}{2}$ 

a. 0.39 b. 0.40, 1.25 c. 0.79 d. 0.79, 1.18

 Determine the equation of a circle with centre (0,0) passing through the point P(-2,5)

a.  $x^2 + y^2 = 3$ b.  $x^2 + y^2 = 9$ c.  $x^2 + y^2 = 21$ d.  $x^2 + y^2 = 29$ 

 Determine the measure of the standard position angle θ if the point P(-4,3) is on the terminal arm of angle θ, where 0° ≤ θ < 360°</li>

a. 37° b.53° c.127° d.143°

Express as a single logarithm: log a − log b − 3 log c

a.  $\log \frac{a}{bc^3}$  b.  $\log \frac{a}{b^3c^3}$  c.  $\log \frac{ac^3}{b}$  d.  $\log \frac{ac^3}{b^3}$ 

5. Determine the x - intercept of  $y = 5^x - 3$ 

a. -2 b. 0.008 c. 0.6 d. 0.68

 An investment earns 2.25% per annum compounded daily. How many years would be required for an investment to triple in value? Assume all years have 365 days.

a. 4.88 b. 5.41 c. 48.83 d. 49.37

Determine the number of different arrangements of all the letters in the word TRIGONOMETRY.

a. 4 989 600 c. 119 750 400 b. 59 875 200 d. 479 001 600

 An area code is the first 3 digits in a phone number and indicates the location of either the province or the city. In Canada, the following area codes exist:

Millionia Pro-2004 5379, 643, 705, 807 Standards Services Section. Yokom and NW Technolos But I Quettes: (Quettes: Citic) 403.00 289, 647 Transmitte (Challacher) Micentonial 3014 Ominetos (Timesmio Meteori) 404 Name Control Board Total New Branchick Section. Charles and 4700 0150 Allegania The same Blockings of Company State 250, 604, 779 Novem Selection 1800 Address to Consultation

Notice that there are 3 area codes for British Columbia: 250, 604 and 778. It will be necessary to add another area code as the population increases. The new area code cannot be the same as an existing code, it must begin with a 3 and end in an even number. Determine the number of possible area codes to choose from.

a. 40 b. 44 c. 49 d. 50

 In a standard deck of 52 cards, determine the number of 5-card hands that must contain at least 3 queens.

a. 4512 b. 4560 c. 4704 d. 4752

10. A dance group has twelve people from which five need to be chosen to compete in a national competition. Bob and Nancy are in the group of twelve and have recently obtained gold at a regional competition. They are therefore required to be among the five selected for the national competition. Given this requirement, how many different fivemember teams are possible?

a. 120 b. 220 c. 252 d. 792

 Determine the 5<sup>th</sup> term in the expansion of (3x+2y)<sup>n</sup>, where n ≥ 6

a.  ${}_{n}C_{4}(3x)^{n-4}(2y)^{4}$  c.  ${}_{n}C_{4}(3x)^{4}(2y)^{n-4}$ b.  ${}_{n}C_{5}(3x)^{n-5}(2y)^{5}$  d.  ${}_{n}C_{5}(3x)^{5}(2y)^{n-5}$ 

 A sheet of metal 12 cm × 12 cm will be used to make an open-top box by removing a square of length x in each corner and turning up the sides as shown in the diagram.



What is the volume of the box as a function of x?

a.  $V = x^3$ b.  $V = x(12-x)^2$ c.  $V = 144-4x^2$ d.  $V = x(12-2x)^2$ 

13. Determine all solutions to the equation  $\sqrt{x+4} = 3x$ 

a. -0.61, 0.72 b. -0.61 c. 0.72 d. 1.33

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