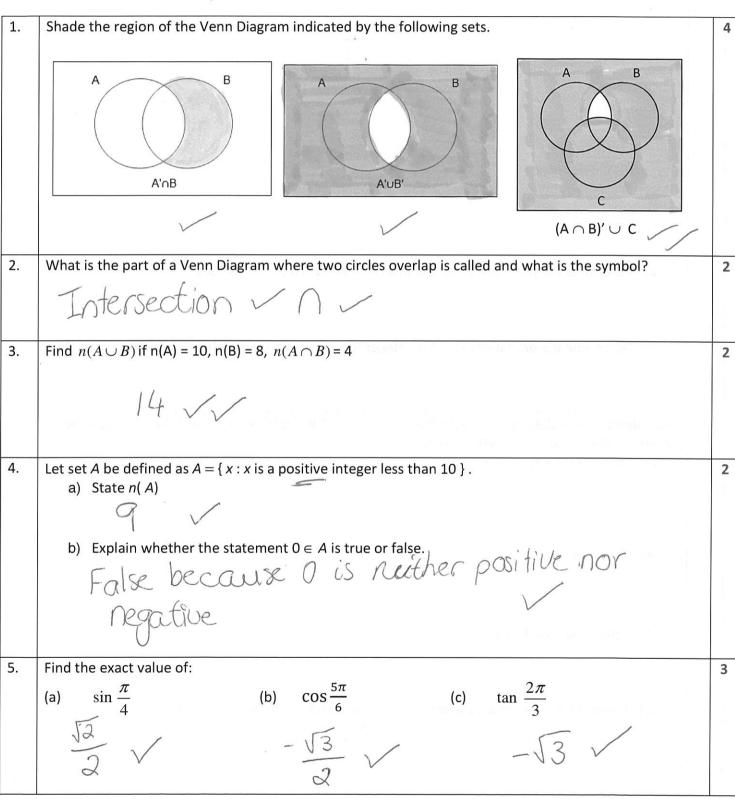


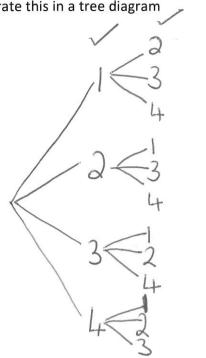
## Year 11 Methods Term 2 Week 4 Quiz

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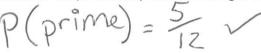
Name: Solutions



a) Illustrate this in a tree diagram



b) Determine the probability that the integer formed is a prime number.



c) Determine the probability that the integer formed is even, given that it is a multiple of three.

ever multiple) = 3/

- The universal set is the set of integers from 1 to 20, A is the set of numbers divisible by 3, B is the set of 7. square numbers and C is the set of prime numbers. A = {3,6,9,12,15,18}
  - (a) Describe the set A ∩B∩C



$$B = \{1, 4, 9, 16\}$$

(b) Determine AU B

AU B = 
$$\{1, 3, 4, 6, 9, 12, 15, 16, 18\}$$

(c) Determine n(AUBUC)'

(d) A number is selected at random from the universal set, determine P(A|B)

