

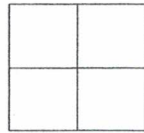
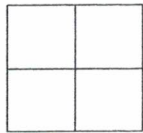
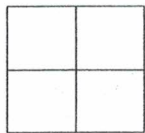
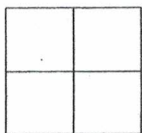
**I. Multiply and simplify completely. Make sure your answer is in standard form. SHOW WORK!**

1.)  $3x(x - 4x^2 + 2)$       2.)  $2b^2(4b - 5 + 6b^2)$       3.)  $-4x^3(10x^2 + 3x^3 - 7) + 2x(4 - 3x^2)$

4.)  $5m^2n^4(2m^3n^2 + mn^3 - 3m^2n)$       5.)  $12c(c^3 + 4c^2 - 2c + 1) - 2c^2(c + 3c^2 - 4)$

**II. Multiply and simplify completely using the BOX method. SHOW WORK!**

6.)  $(x + 3)(x + 2)$       7.)  $(a - 8)(a + 5)$       8.)  $(x + 3)(2x - 5)$       9.)  $(4x + 3)(x - 7)$



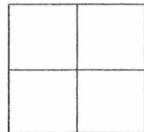
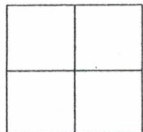
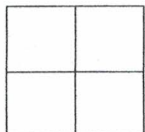
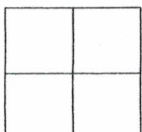
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10.)  $(3w - 4)(2w - 1)$       11.)  $(4x + 7)^2$       12.)  $(5x + 6)(5x - 6)$       13.)  $(3c - 2d)^2$



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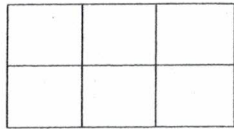
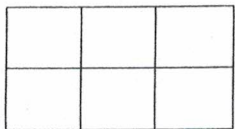
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14.)  $(x^2 - 4x + 5)(x - 3)$

15.)  $(2x + 4)(2x^2 - 3x + 4)$



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16.) Find the area of the shaded region.

