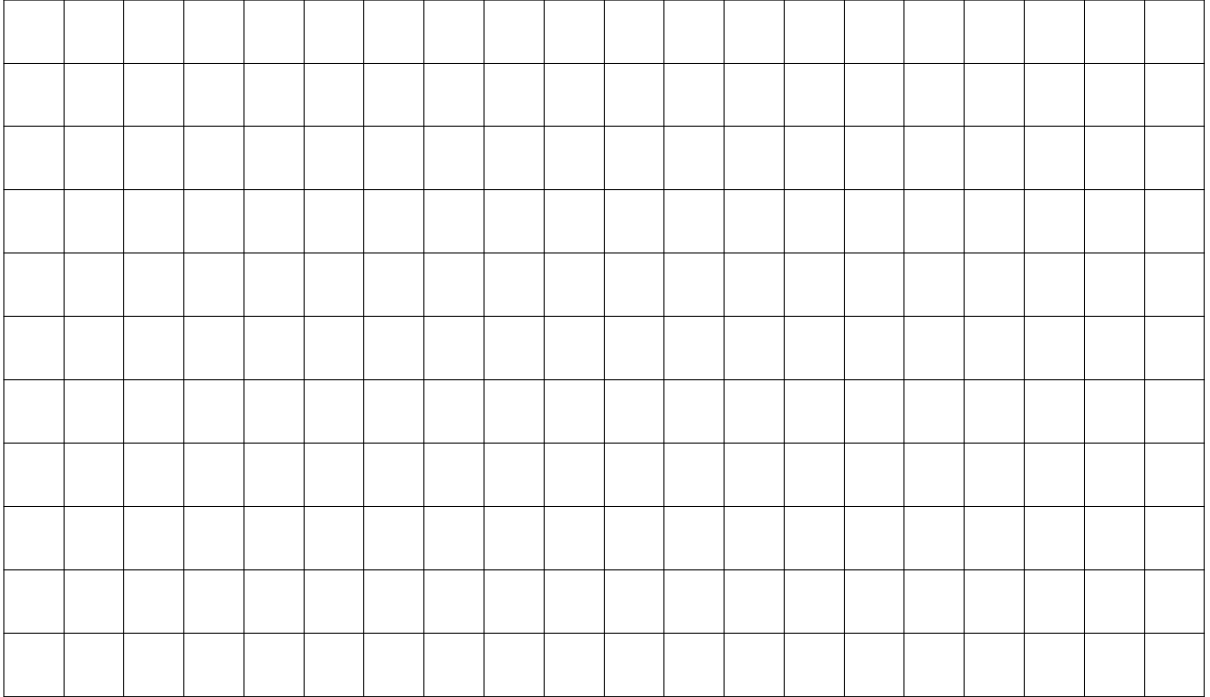
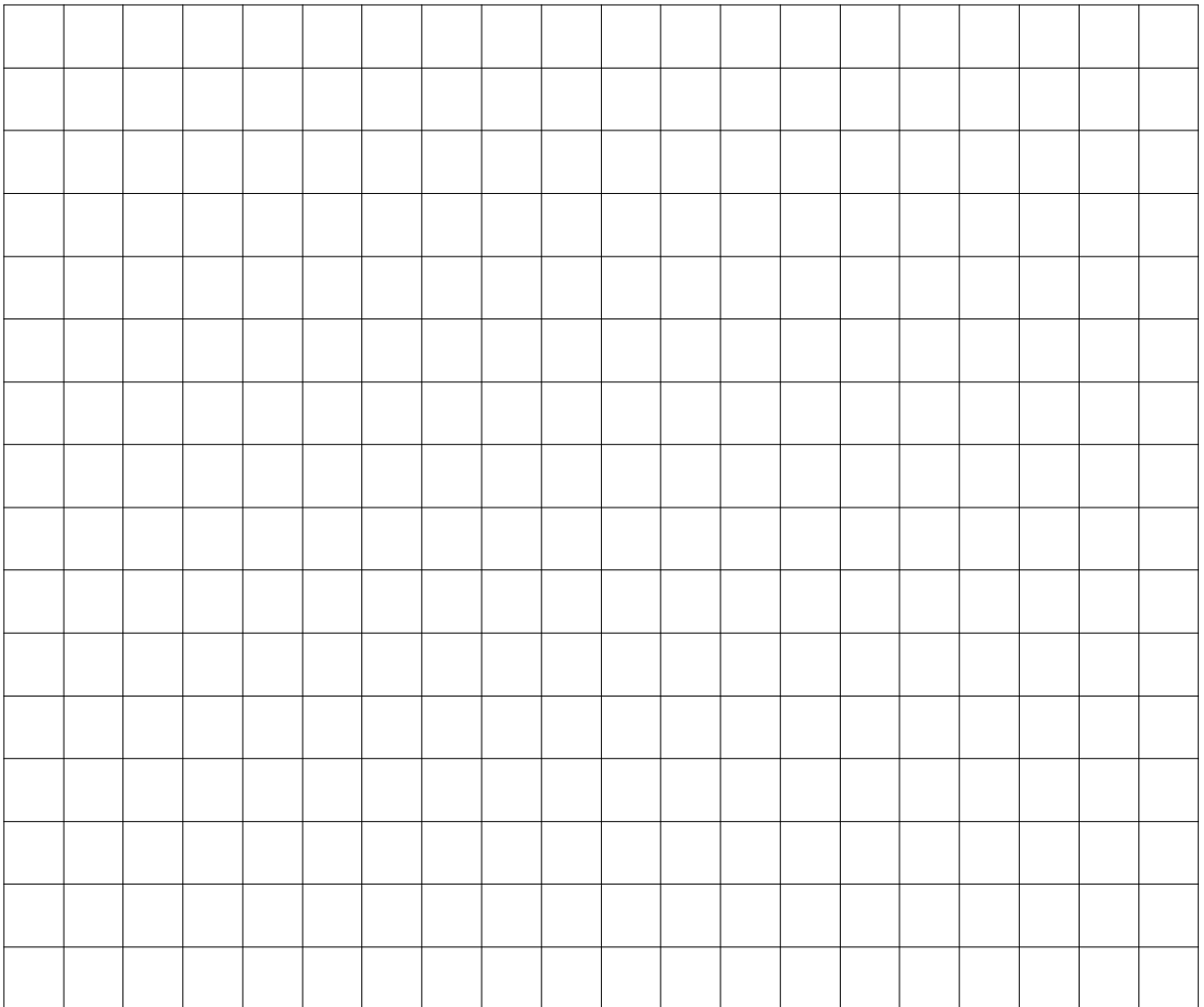


(2) $d = \sqrt{5} - 2$ et $e = \sqrt{6} - \sqrt{5}$



(3) $f = \frac{\sqrt{3} + 2}{\sqrt{3} - 1}$ et $g = \frac{2\sqrt{2} + 1}{2(\sqrt{2} - 1)}$



Question 3

32 (=9+8+7+8) points

Résoudre les équations suivantes et écrire l'ensemble de solutions :

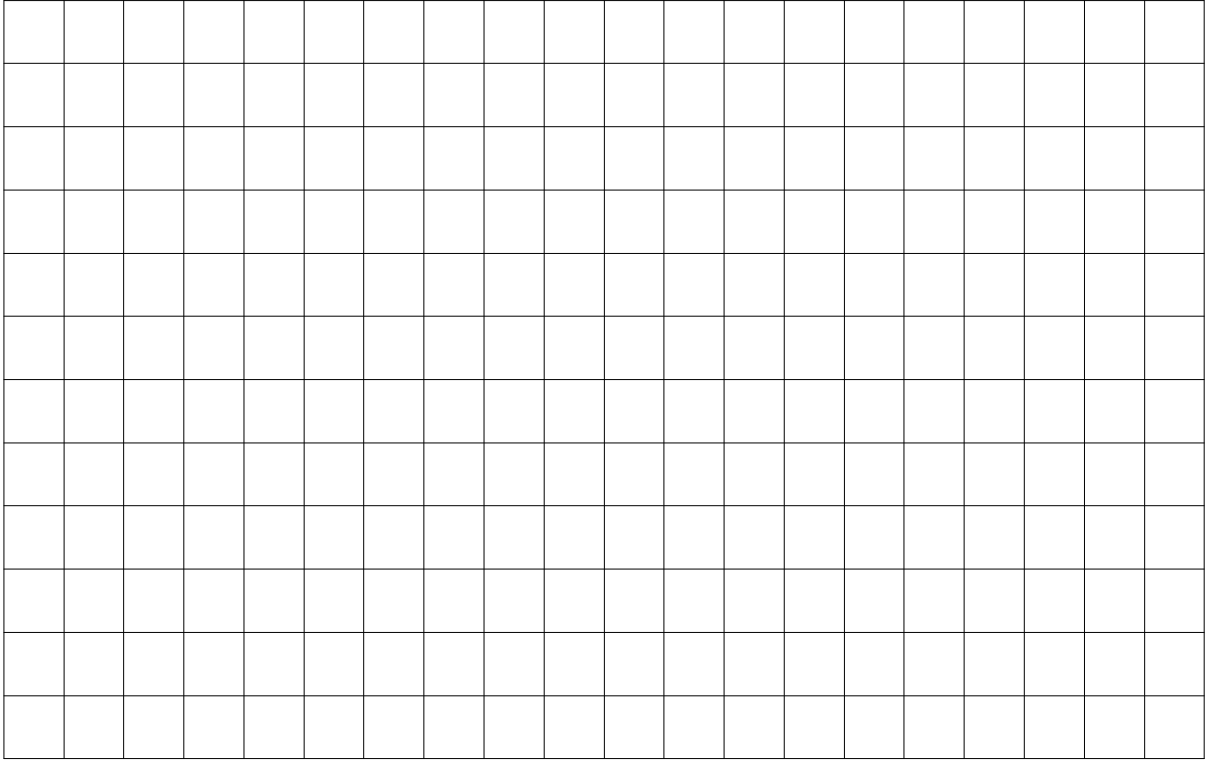
$$(1) \quad 3(2x - 3)(x - 2) = x^3 - 2x^2$$

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$$(2) \quad \frac{77(x - 2)}{22} - \frac{8 - 9x}{20} = 7 - 2\left(\frac{x}{4} + \frac{9x + 4}{8}\right)$$

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$$(3) \quad \sqrt{2}(x + 2) = 2x - 3\sqrt{2}$$



$$(4) \quad (a^2 - 5)(a^2 - \sqrt{8a}) = 2(5 - a^2)$$

