AN ROINN OIDEACHAIS

(Department of Education).

INTERMEDIATE CERTIFICATE EXAMINATION, 1952.

ELEMENTARY MATHEMATICS (Algebra).

FOR GIRLS ONLY.

TUESDAY, 17th JUNE .- MORNING, 10 to 12.

Six questions may be answered.

All questions carry equal marks.

- 1. Find the value of $\frac{(2x^2+3xy+y^2)(2x^2+xy-y^2)}{x^2+2xy+y^2}$ when $x=3\frac{1}{2}$ and y=-2.
 - 2. Put the expression $\frac{x-1}{3} + \frac{4x+1}{5} \frac{5x-8}{15}$

into its simplest form. Find the value of x for which the expression will be equal to 6 and verify your answer.

- 3. Factorise:
 - (i) ac-bc+ad-bd,
 - (ii) $2x^2 5x + 2$,
 - (iii) $(a+b)(a-2b)^2-(a-2b)^3$.
- 4. A woman bought x oranges at y pence each and 2x oranges at z pence each. She sold the whole lot at k pence each. Find (i) the total cost of the oranges, (ii) the total selling price, (iii) the profit made, (iv) the percentage profit.

Or,

4. A man purchased 12 dozen pencils for £1 8s. 9d. For some of the pencils he paid $2\frac{1}{2}$ d. each and for the remainder he paid $2\frac{1}{4}$ d. each. Find how many he bought at $2\frac{1}{4}$ d. each.

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5. Find, correct to two places of decimals, the values of x which satisfy $x^2-5x+3=0$.

6. Draw the graph of x^2-3x for values of x from -2 to +5, and find from it the value of x^2-3x when $x=2\frac{1}{2}$.

CONTRACTARY MATHEMATICS Algebra.

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