(a) Identify ONE common household base.

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(b) A student used indicators to determine whether three colourless solutions were acidic or basic. The indicators used are shown in the table.

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Indicator	Colour change	pH range
Methyl orange	red to yellow	3.2–4.4
Methyl red	red to yellow 4.8–6.0	
Thymol blue	yellow to blue	8.0–9.6
Alizarin	red to purple	11.0–12.4

Samples of each solution were tested with the indicators. The colours of the resulting solutions are shown in the table.

Indicator added	Colour of solution A	Colour of solution B	Colour of solution C
Methyl orange	yellow	yellow	yellow
Methyl red	yellow	yellow	yellow
Thymol blue	blue	blue	yellow
Alizarin	purple	red	red

The student concluded that each of the three solutions tested was basic. Assess the validity of this conclusion.

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Methyl real indicating that the pit is above or spal above or equal thus when Thymal blue was used, the results indicated the colution A and B are around when pit of 9.6 and over while solution C is the within 8 as the colour of the when Alizarine was added, the colour shange of the while Bound C is around the pit of 12.4 while Bound C is around the pit of 12.4 while Bound C is around about this should get be pit of 12.4 while Bound C is around about this about 9.6-11.0 and because solution c did not change in both indicator of a pit range of base, thus it is not a base.