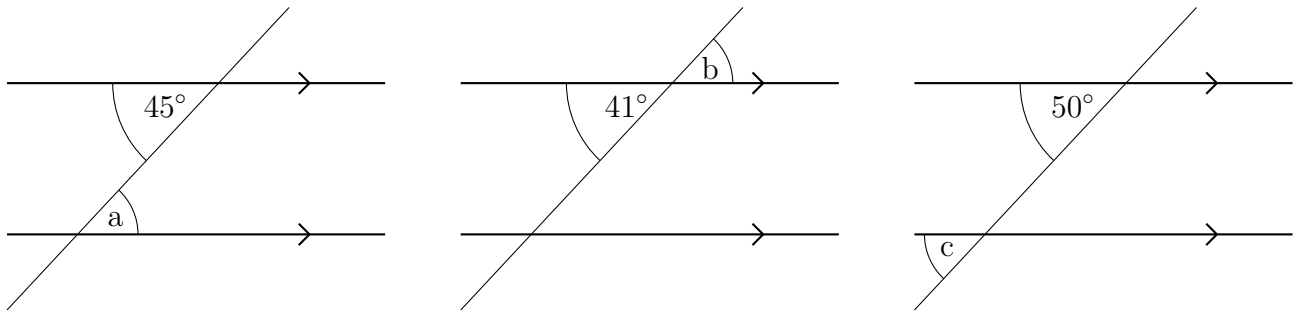1. Complete

FYI You may use: alternate, corresponding or vertically opposite to complete the reasons

angle a = ...° because .... are equal

angle b = ...° because .... are equal

angle c = ...° because .... are equal

2. Complete
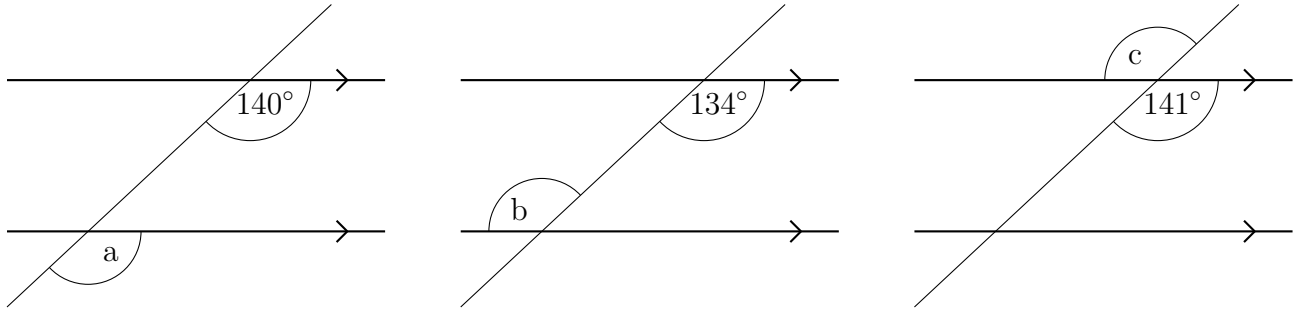
FYI You may use: alternate, corresponding or vertically opposite to complete the reasons

angle a = ...° because .... are equal

angle b = ...° because .... are equal

angle c = ...° because .... are equal

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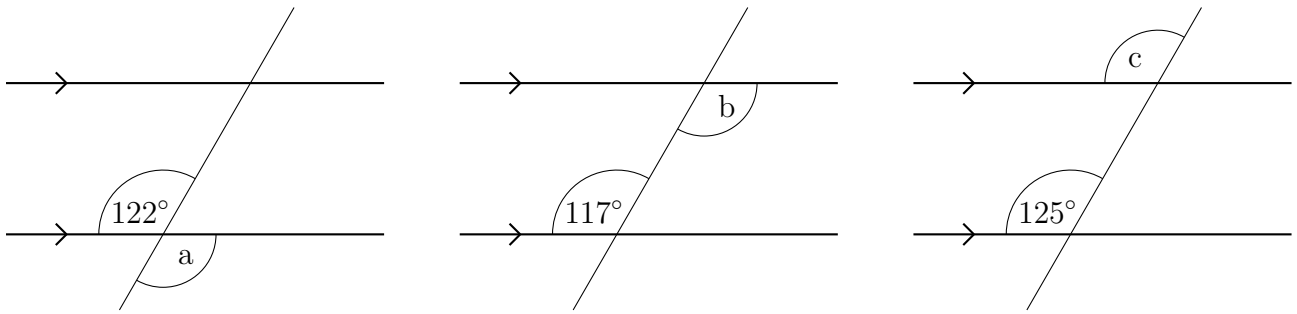
3. Complete

FYI You may use: alternate, corresponding or vertically opposite to complete the reasons

angle a = ...° because .... are equal

angle b = ...° because .... are equal

angle c = ...° because .... are equal

4. (i) Complete
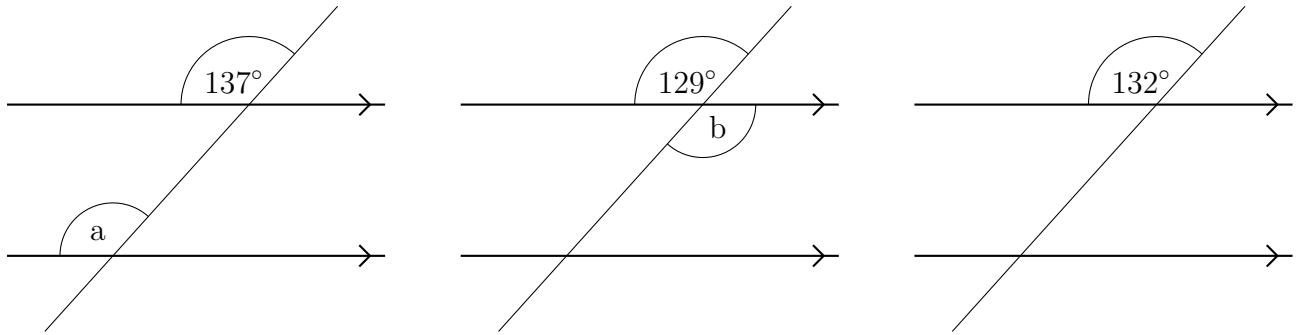
FYI You may use: alternate, corresponding or vertically opposite to complete the reasons

angle a = ...° because .... are equal

angle b = ...° because .... are equal

(ii) One angle reason is missing. Why? ....

....

Answers

1. a = 45 + alternate
   b = 41 + vertically opposite
   c = 50 + corresponding

2. a = 140 + corresponding
   b = 134 + alternate
   c = 141 + vertically opposite

3. a = 122 + vertically opposite
   b = 117 + alternate
   c = 125 + corresponding

4. a = 137 + corresponding
   b = 129 + vertically opposite
   (ii) alternate angles are found above the lower parallel line but below the upper, the angle 132° shown, can't have an alternate angle.