Triangle Inequality

State whether each set of numbers can be the side lengths of the triangle.
Circle 'Yes' or 'No'.

1)   5 ft, 13 ft, 10 ft

2)   17 ft, 23 ft, 19 ft

Yes   No

Yes   No

3)   12 in, 20 in, 16 in

4)   6 yd, 1 yd, 4 yd

Yes   No

Yes   No

Write whether each set of side lengths forms the triangle or not.

1)   10 yd, 2 yd, 13 yd

2)   34 in, 22 in, 12 in

_____

_____

3)   8 ft, 9 ft, 7 ft

4)   17 yd, 28 yd, 19 yd

_____

_____

5)   25 in, 15 in, 20 in

6)   11 ft, 16 ft, 3 ft

_____

_____

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Answer key

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Circle 'Yes' or 'No'.

1) 5 ft, 13 ft, 10 ft

   (Yes)   No

2) 17 ft, 23 ft, 19 ft

   (Yes)   No

3) 12 in, 20 in, 16 in

   (Yes)   No

4) 6 yd, 1 yd, 4 yd

   Yes   (No)

Write whether each set of side lengths forms the triangle or not.

1) 10 yd, 2 yd, 13 yd

   The sides not form a triangle.

2) 34 in, 22 in, 12 in

   The sides not form a triangle.

3) 8 ft, 9 ft, 7 ft

   The sides form a triangle.

4) 17 yd, 28 yd, 19 yd

   The sides form a triangle.

5) 25 in, 15 in, 20 in

   The sides form a triangle.

6) 11 ft, 16 ft, 3 ft

   The sides not form a triangle.