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For each of the following problems, find the requested set. There is no partial credit on this part of the quiz. For each of the following problems use the sets:

$$U = \{1, 2, 3, 4, 5\}$$

$$X = \{1, 3, 5\}$$

$$Y = \{1, 2, 3\}$$

$$Z = \{3, 4, 5\}$$

1.  $X - Y =$
2.  $Y - Z =$
3.  $(Y - Z) - X =$
4.  $Y \times Z =$
5.  $(Y \cup Z) - X =$

Complete the following problem. Show all work, including an explanation, to receive full credit.

6. Three announcers each tried to predict the winners of Sunday's professional football games. The only team not picked that is playing Sunday was the Giants. The choices of each person were as follows:

Phyllis: Cowboys, Steelers, Vikings, Bills  
Paula: Steelers, Packers, Cowboys, Redskins  
Rasheed: Redskins, Vikings, Jets, Cowboys

If the only teams playing Sunday are those just mentioned, which teams will play which other teams?