Name: _____
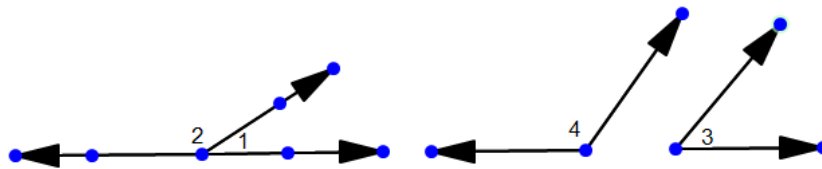
Supplementary and Complementary Angles

Refer to the given diagram to answer questions 17 and 18

∠1 and ∠2 are supplements   ∠3 and ∠4 are supplements.

1) If $m\angle 1 = m\angle 3 = 27$, find $m\angle 2$ and $m\angle 4$

2) If $m\angle 1 = m\angle 3 = x$, find $m\angle 2$ and $m\angle 4$ in terms of x.

3) If two angles are congruent, must their supplements be congruent?

4) The measure of an angle is 50 more than that of its complement.
   Find the measure of each angle.

5) The measure of an angle is 70 more than that of its supplement.
   Find the measure of each angle.

6) The measure of an angle is 3 times that of its supplement. Find the measure of each angle.

7) The measure of an angle is 30 less than 5 times the measure of its complement. Find the measure of each angle.

8) The measure of an angle is 20 more than 3 times the measure of its supplement. Find the measure of each angle.

9) The measure of an angle is $\frac{1}{5}$ the measure of its complement. Find the measure of each angle.

10) The measure of an angle is $\frac{2}{3}$ the measure of its supplement. Find the measure of each angle.