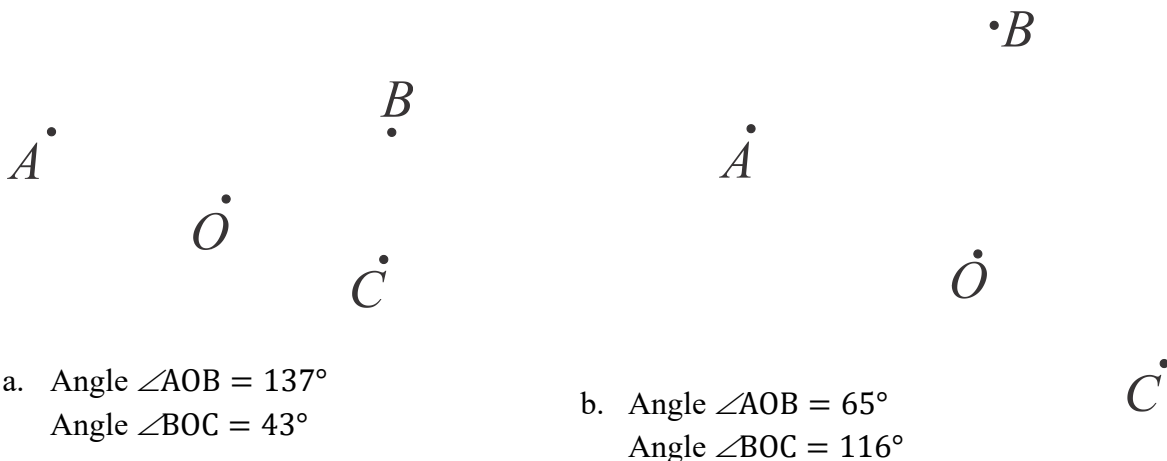
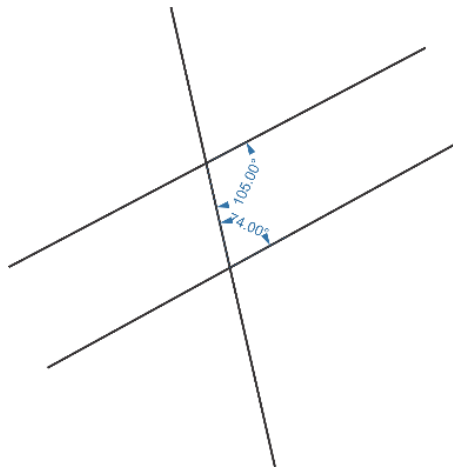


1. In a soccer team, there are 11 people. How many ways can you select a) a captain and a vice-captain; b) two forwards?
2. How many different five-digit numbers, not containing identical digits, can be written using the digits 1, 2, 3, 4, 5?
3. How many different five-digit numbers, not containing identical digits, can be written using the digits 1, 2, 3, 4, 5, such that:
 - a. The last digit is 3?
 - b. The first digit is 2, and the last digit is 4?
4. Show that $(57! + 58!)$ is divisible by 59. (Hint: find common factors.)
5. Evaluate:

a. $5^{-1} + 10^{-1}$;	b. $(0.5 + 1)^{-2}$;	c. $(2^{-4} + 4^{-2})^{-1}$;	d. $(2 - 2^{-1})^{-1}$;
e. $3^{-1} + 9^{-1}$;	f. $(0.2 + 1)^{-1}$;	g. $(4^{-2} - 4^{-3})^{-1}$;	h. $(3 - 3^{-1})^{-2}$;
6. Do the points A, O, and C lie on the same line?



7. Are these two lines parallel?



8. Simplify the following expressions (combine like terms).

a. $2xy + 0.5xy + (xy): 6 + (xy): 3 + xy;$

b. $a + 2b + 2a + 4b + 3a + 6b$

c. $8\frac{3}{11}x + 0.66y + 5\frac{2}{11}x + 2.34y$

d. $17x - (3y + z) + (5z - x) - (2x - 8y);$

e. $c - (c - d) - \left(c - \frac{d}{2}\right) - \left(c - \frac{d}{4}\right) - \left(c - \frac{d}{8}\right) - \left(c - \frac{d}{16}\right) + \frac{d}{16}$