

1) Which of the following equations are proportional (circle all that apply). **Explain how you know.**

a) $y = \frac{1}{7}x$

b) $y = 3x + 6$

c) $y = \frac{2}{3}x + 0$

d) $y = 4x$

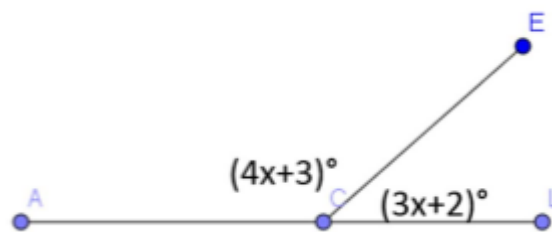
2) Fill in the missing values to make the table proportional.

x	y
12	3
	5
24	
	10

3) You are painting your room the perfect shade of sky blue. To make this perfect shade it is 1-part white paint to 3-parts blue paint. You accidentally mix up this proportion and make a mixture that is 1-part blue paint and 3-parts white paint. How much more blue and white paint do you need to **ADD** to get the perfect shared of sky blue?

4) Use the image to find the following:

- a. $m\angle ACE$ _____
- b. $m\angle ECL$ _____
- c. $m\angle ACL$ _____
- d. $x =$ _____



Factor the following expressions:

5) $12x + 16$

6) $8x + 10$

7) $15x + 8$