

1. In your notebook solve the equations:

a).  $2 \cdot (3x - 4) + x - 7 = 4(x + 3)$

b).  $|2x + 1| = 4$

c).  $12 - \frac{5}{8}x = 17$

Answers: a)  $x = 9$

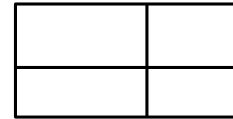
b)  $\{-2\frac{1}{2}, 1\frac{1}{2}\}$

c)  $x = -8$

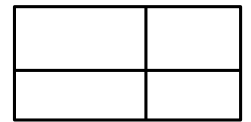
**Complete in this handout:**

2. Remove parenthesis and simplify:

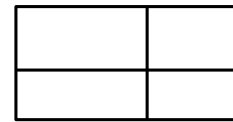
$(w + 1) \cdot (w + 1) =$  \_\_\_\_\_



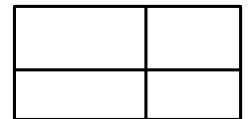
$(w + x) \cdot (w + x) =$  \_\_\_\_\_



$(x + 1) \cdot (x - 1) =$  \_\_\_\_\_

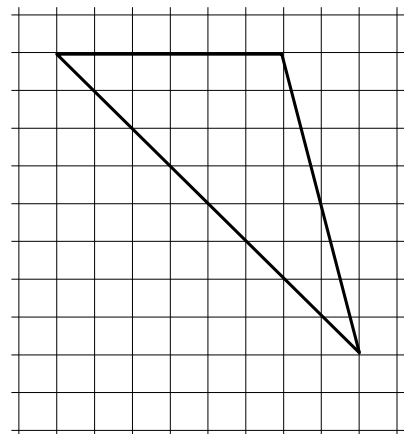
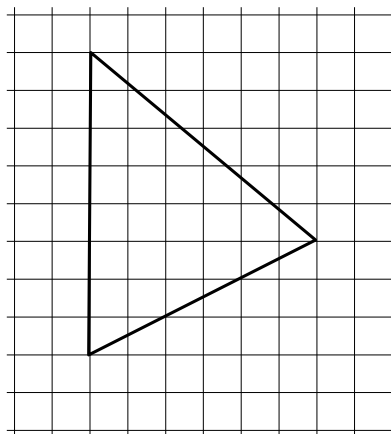
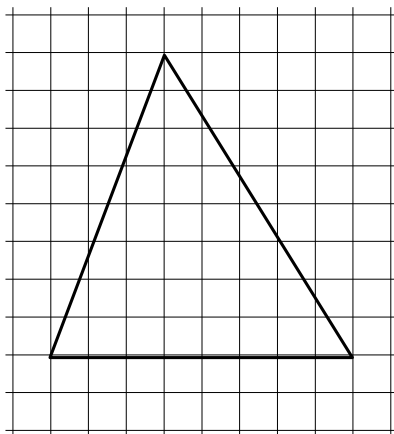


$(x + y) \cdot (x - y) =$  \_\_\_\_\_



3. Add 4D vectors:  $\vec{a} = (3, -1, 5, 2)$  and  $\vec{e} = (-1, 4, 3, -6)$  :  $\vec{a} + \vec{e} =$  \_\_\_\_\_

4. Find the areas of the triangles:



3. Straight lines  $AB$  and  $CD$  are parallel:  $AB \parallel CD$ .

a). Show that areas of  $\triangle ACD$  and  $\triangle BCD$  are equal.

b). What can you say about the area of  $\triangle RCD$ ?

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