MATH 6
HANDOUT 19: SOLVING EQUATIONS AND INEQUALITIES - MORE PRACTICE

Homework

1. Solve the following inequalities. Show the result using interval notation.

(a) $\dfrac{x-3}{2} < -5$ (b) $-2 < \dfrac{6-2x}{3} < 4$ (c) $5x-(x+2) > -5(1+x)+3$

(d) $1+2x < 3x$ (e) $x-1 < -7$

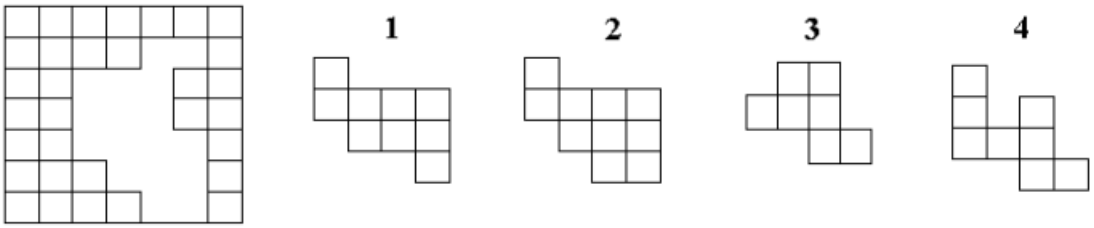
2. Solve the following equations and inequalities and show your result using interval notation (where applicable):

(a) $(x+1)(x-3) > 0$ (b) $x(x-1) < 0$ (c) $\frac{1}{x+1} > 2$

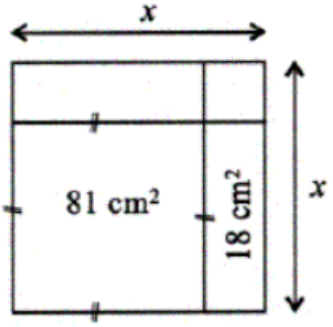
(d) $x^2-9=0$ (e) $\frac{x}{x-1} > 1$

3. Graph $y = |x-2|$. Label your graph, show the points chosen.

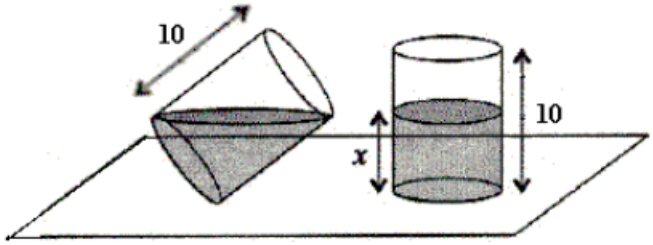
4. Select 2 pieces on the right to cover the missing area of the figure on the left. (Math Kangaroo)



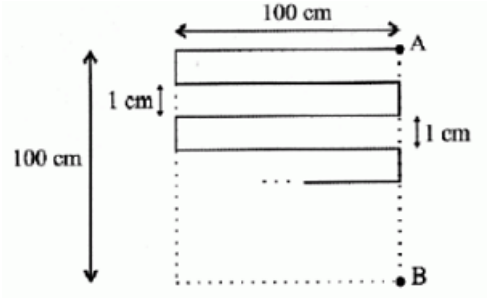
5. Find x. (Math Kangaroo)



6. What is x? (Math Kangaroo)



7. What is the length from A to B? (Math Kangaroo)



8. Given five isosceles right triangles, what is the shaded area? (Math Kangaroo)