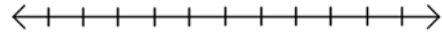
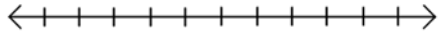


Solve the following inequalities and graph the solutions on the number lines.

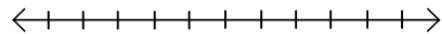
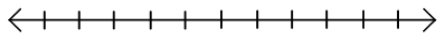
1) $\frac{2}{3}x - \frac{1}{2} < \frac{1}{3}$

2) $-\frac{3}{4}x - \frac{1}{3} = -\frac{1}{4}$



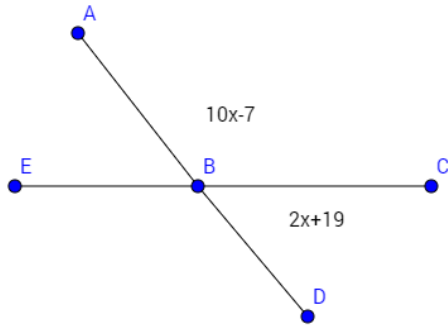
3) $\frac{-3x-7}{8} \geq 1$

4) $-2 \geq \frac{2x+4}{2}$



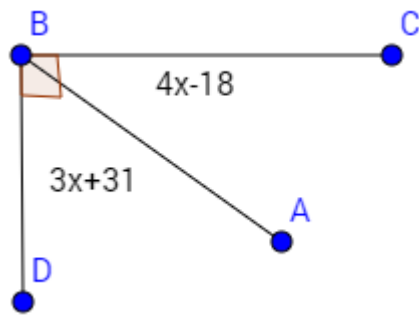
Find the indicated measures or values for the angles below. Show your work.

5)



$m\angle ABC =$ _____
 $m\angle ABE =$ _____
 $x =$ _____

6)



$m\angle ABC =$ _____
 $m\angle ABD =$ _____
 $x =$ _____

7) Are the following expressions equivalent? Justify your reasoning.

$-\frac{1}{2}(2x - 8)$ and $x + 4$

8) Simplify:

$13xy - 18yz + 9xy - 8yz$

9) Sam wants to go to Lagoon, but he needs to take a minimum of \$130 in order to gain entrance and buy food. He already has \$40 saved and he is doing chores around the house to make the rest. If he gets paid \$5 per chore, how many chores will he have to complete? Write and solve an inequality to answer the question.

10) A circle has an area of 200.96 ft^2 . Using 3.14 for π , find the circumference of the circle. Show your work.