

BE - Geometry 1 | Wednesday 9-8-10

① SOLVE: $\frac{2}{3}X - 6 = 24$
check

② Solve AND graph the solution on a
number line: $-4(3x+1) \leq 16$

ANS

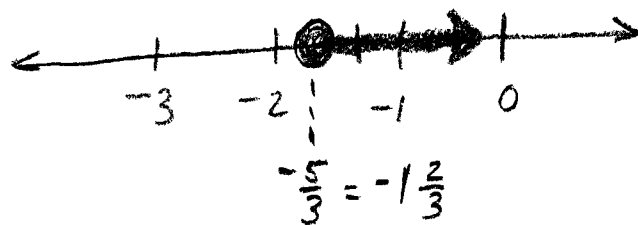
① $\frac{2}{3}X - 6 = 24$	<u>CK</u> $\frac{2}{3}(45) - 6 \stackrel{?}{=} 24$
$\frac{3}{2} \cdot \frac{2}{3}X = 30 \cdot \frac{3}{2}$	$30 - 6 \stackrel{?}{=} 24 \checkmark$
<div style="border: 1px solid black; padding: 5px; display: inline-block;">$X = 45$</div>	

② $-4(3x+1) \leq 16$

$-12x - 4 \leq 16$

$\frac{-12x}{-12} \leq \frac{20}{-12}$

$X \geq -\frac{5}{3}$



- HW Review
- ICW

Q1HW4

Evaluate each function.

1) $g(n) = 4n - 5$; Find $g(-7)$

2) $g(x) = 2x^3 - x$; Find $g(1)$

3) $g(x) = 3x - 5$; Find $g(x - 3)$

4) $p(n) = -4n - 1$; Find $p(-2n)$

5) $h(n) = 4n - 2$
 $g(n) = n - 4$
 Find $h(g(n))$

6) $f(x) = -3x^2 + x$
 $g(x) = -x - 3$
 Find $f(g(x))$

Solve each equation. Check your solution.

7) $-13 = -6x - 7x$

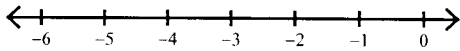
8) $-23 = n - 8 + 2n$

9) $m - 17 = -2 - (4m - 5)$

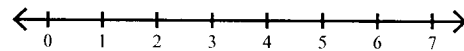
10) $4r + 15 = -5(7r - 3)$

Solve each inequality and graph its solution.

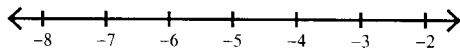
11) $-2 - 8x - 1 > 13$



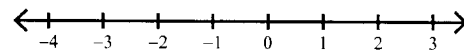
12) $2n - 6 + 2n \leq 10$



13) $b - 8 + 3 > -9$



14) $6r + 6r \leq -12$



Solve each inequality.

15) $-5(x + 3) > 37 + 8x$

16) $-5n - 7(3 - 3n) < 8n + 35$

17) $7(3 - 2a) \geq 30 - 5a$

18) $3(3v - 1) > -28 + 4v$

Answers to Practice: eval. functions, solve linear eq./inequalities. (ID: 1)

1) 145

2) 9

3) -48

4) 77

5) $t^2 + 7t + 6$

6) $2a^2 - 16a + 30$

7) $3n^3 - 12n^2 - 2$

8) $-6n^2 - 7$

9) {2}

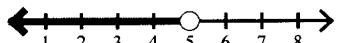
10) {-3}

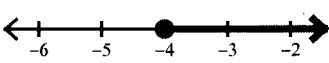
11) {-3}

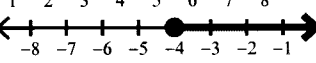
12) {-5}

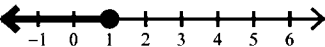
13) {-1}

14) {1}

15) $v < 5$:  A number line from 1 to 8 with tick marks at every integer. An open circle is drawn at 5, and an arrow points to the left from this circle.

16) $a \geq -4$:  A number line from -6 to -2 with tick marks at every integer. A closed circle is drawn at -4, and an arrow points to the left from this circle.

17) $v \geq -4$:  A number line from -8 to -1 with tick marks at every integer. A closed circle is drawn at -4, and an arrow points to the left from this circle.

18) $x \leq 1$:  A number line from -1 to 6 with tick marks at every integer. A closed circle is drawn at 1, and an arrow points to the left from this circle.

19) $k \geq 6$

20) $x \leq 2$

21) $k \geq 0$

22) $p > -1$