

COLLEGE ALGEBRA QUIZ

(1) Solve $|x - 5| = 3$

Solution: $x = 3, 8$

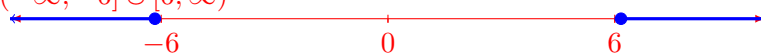
(2) Solve $|2y + 7| = 13$

Solution: $y = -10, 3$

(3) Solve $|3x| \geq 18$ and write the solution set in interval notation. Then graph the solution set.

Solution:

$(-\infty, -6] \cup [6, \infty)$



(4) Solve $|4x + 3| < 27$ and write the solution set in interval notation. Then graph the solution set.

Solution:

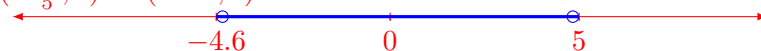
$(-\frac{15}{2}, 6)$ or $(-7.5, 6)$



(5) Solve $|1 - 5x| < 24$ and write the solution set in interval notation. Then graph the solution set.

Solution:

$(-\frac{23}{5}, 5)$ or $(-4.6, 5)$.



(6) Solve $|x + 6| \geq 2$ and write the solution set in interval notation. Then graph the solution set.

Solution:

$(-\infty, -8] \cup [-4, \infty)$

